# The Mining Journal RAILWAY AND COMMERCIAL GAZETTE.

forming a complete record of the proceedings of all public companies.

No. 815.---Vol. XXI.]

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LONDON, SATURDAY, APRIL 5, 1851.

PRICE 6D.

Stannaries of Cornwall .- In the Vice-Warden's Court

IN THE CONSOLIDATED CAUSES OF ROBINS, THE YOUNGER, AND OTHERS v. BARRETT.

ROBINS, THE YOUNGER, AND OTHERS & BARRETT.

WHEREAS the VICE-WARDEN did, by an Order of this Court, made in these Consolidated Causes, and bearing date the 18th day of February last, Order and Decree that a SALE be made of the ORES, and (if necessary) the ENGINES, MACHINERY, and MATERIALS upon and belonging to ROCHE ROCK TIN MINE, in the parish of ROCHE, within the said Stannaries, under the direction of the Registrar in the manner directed by the same Order or Decree.

Notice is hereby given, that, pursuant to the said Order or Decree.

Notice is hereby given, that, pursuant to the said Order or Decree, a PUBLIC AUCTION will be HELD at ROCHE ROCK TIN MINE aforesaid, on Tuesday, the 18th day of April next, at Eleven o'clock in the forenoon, for SELLING, either together or in lots, THE UNDERMENTIONED

MINNING MACHINERY AND MATERIALS—VIZ.:

MINING MACHINERY AND MATERIALS—viz.:

1 50-inch cylinder ENGINE, 1 boller (12 tons), 15 failtons 11-inch pumps, 1 tackle and brace, 8 pulleys and stands, 15 fathoms of ladders, 1 whim, 5 water-wheels, four of which are connected with stamps, 4 V-bobs, 1 buddle, 2 racks, shovel and pick-hilts, sinverls, barrows, smiths' tools, new and old iron, staples and glands, scales and weights, miners' chests, anvil, smiths' bellows, vice, wheelbarrows, handbarrows, nails, 1 carpenter's bench, water barrels, kibbles, sw frames, grinding stone, a quantity of brick and slate, 2 triangles, 1 tackle, 2 timber pumps, a quantity of new and old timber, iron blocks and kibbles.

For viewing the same, application may be made to Mr. Morriss, at the mine; and for further particulars (if by letter pre-paid) to Mr. Bishop, solicitor, Fowey; or to Mr. Stokes, solicitor, Truro.—Dated Registrar's Office, Truro, March 26, 1851.

LAST GREAT SALE AT THE BRITANNIA BRIDGE. HIGHLY IMPORTANT TO CONTRACTORS, BUILDERS, QUARRY PROPRIETORS, MINERS, FARMERS, AND OTHERS.

MINERS, FARMERS, AND OTHERS.

MR. W. DEW begs to announce that he has been selected by Mesars. Nowell, Hemmingway, and Pearson, as well as by the Directors of the Chester and Holyhead Railway Company, to DISPOSE OF, BY PUBLIC AUCTION, on Tuesday, Wodnesday, Thursday, and Friday, the sith, 9th, 10th, and 11th days of April, 1851 (commencing most punctually at Eleven o'clock each morning), the entire of their

Chester and Holyhead Railway Company, to DISPOSE OF, BY PUBLIC AUCTION, on Tuesday, Wodnestey, Thursday, and Friday, the sith, sth. 10th, and 11th days of April, 1851 (commencing most punctually at Eleven o'clock each morning), the entire of their EXTENSIVE AND VALCABLE

STOCK OF TIMBER, MACHINERY, WROUGHT AND CAST-IRON, and OTHER EFFECTS, now lying on the ground abutting the BRITANNIA TUBULAR BRIDGE (on both the Carnarvonshire and Anglesea sides), of which the following is a condensed summary:

THE MACHINERY.
Which has been furnished by the first makers, comprehends 22 superior and exceedingly powerful wooden and iron-framed Jennies in good repair, six from framed double purchase crabs in good order, five powerful landing cranes, cample of lifting 16 tons, well tested, machinery for 25 travellers in good condition, two 40-feet pile engines, and one ringing ditto, two saw frames, with circular saws, six cast-fron hoisting drums, 3 feet diameter and upwards, one frietion gear, several new spur wheels of various dimensions, pinions, pedestals, three 6 inch wrought-iron shafts, in 18 feet lengths, with couplings and pedestals, single, double, and treble wooden and iron sheave blocks, sheaves and hooks of various sizes, shear legs of different lengths.
One highly-finished 15-horse power HiGH-PRESSURE STEAM-ENGINE, with portable boiler, made by Messra, Galloway, of Manchester, in fine working order; and other sundry articles, fully particularised in the catalogue.

Two substantially-built square IRON PONTOONS, with raking ends and sides, measuring 100 feet in length, 30 feet beam. 10 feet deep, and drawing 3 feet 4 inches water. They were used for floating landing stages, and are, consequently, constructed in a surperior manner, and carefully pointed and preserved.

Two large new IRON CAPSTANS (by Marc), barrel 3 feet diameter, built upon the best approved principle, and of the most modern pattern, with oak bars, complete, well adapted for dock purposes.

ABOUT TWO HUNDRED TONS OF WROUGHT AND CAST-IRON, in hars and

hawsers, and other ropes; 20 ladders of various lengths;

FOURTEEN WOODEN COTTAGES,
with slate roofs, and other erections, admirably adapted for sheds and outhouses; two
well-built flats, the Britannia and Union, of 60 tons burthen each, the Britannia classes
A 1; SIX RIVER BOATS, of different measurements; 10 anchors (various); a very
strong 6-inch wheel, two-horse cart, and several sets of gear, as well as other numerous
materials, more fully enumerated in the catalogue.

The whole of the above have been used in the erection of the masonry of the Britannia
Bridge, and have, consequently, been most efficiently tested and proved, and will be found
to be a collection of materials, which, for adaption for the several purposes for which
they were intended will be rarely found to be equalled, and but seldom submitted to
public competition.

Catologues, embodyling every particulars, may be had on and after the 1st of April, at
the following places:—All the stations on the Chester and Holyhead line, and Mold
Branch; the principal inus in the vicinity, at the office, Britannia Bridge; at the Talbot
Hotel, Market-street, Manchester; at Mr. D. Hodgkins' Auction Rooms, Queen's-square,
Liverpool; and of the auctioneer, Mr. Dew, Green Cottage, Llangelin, Anglessy...

ARR (THOM MR. S. BLANDECKED) will SCHLL BY ALICEWOON.

Action Rooms, Queen's square, Liverpoot; and of the anctioner, Mr. Dew, Green Cottage, Liangefin, Anglessy."

M. R. THOMAS BLANDFORD will SELL, BY AUCTION, at the Queen's Head Inn, NEWCASTLE-UPON-TYNE, on Saturday, the 12th day of April, 1851, at Ong o'clock in the afternoon, the FRERHOLD and TITHE-FREE Consisting of 103 acres, or thereabout, of anciently enclosed LANDS, and 222 acres, or thereabout, of more recently enclosed PASTURE, and an undivided MOIETY of an adjoining MOOR, containing 838 acres, or thereabout; and an undivided FOURTH of a PARCEL of LAND, containing 23 acres, or thereabout; and an undivided FOURTH of a PARCEL of LAND, containing 23 acres, or thereabout; and stuated in PRIORSDALE, in the parish of ALSTON, in the county of CUMBERLAND, 6 miles distant from the town of Alston, on the line of turnpike-road from Alston to Middleton, which road passes through the heart of the property, connecting it with the Branch Railway from Haltwhistie to Alston, which is expected to be completed in the course of 1851.

The MINERALS under the anciently enclosed lands belong to the proprietor of the soil, and those under the above-mentioned pasture and moor, and also under an adjoining pasture, containing 204 acres, or thereabout (the property of the Commissioners of Greenwich Hospital; and those under the above-mentioned pasture and moor, and also under helpsital; and those under the apreced of land, containing 23 acres, belong to the proprietors of the soil. The ESTATE abounds in LEAD, IRON, COAL, LIME, &c.; the strata and most of he mineral velus which intersect the property, and are almost unexplored, being the same as those in which the rich mines of Alston Moor, Weardale, Tecstalo, Allendale, Nenthead, &c., have been worked with the greatost success in the immediate neighbourhole. Members in the property is well in the course of the additional continues to be, worked with considerable success, is standing whole for more finan a mile in length, and produces from 60 to 90 onnes of allere to the fother of l

extensively drained, limed, and planted, but is still capable of great improvement if these operations are continued; and this can be done at a very trifling expense, as the stones for draining, together with limestone and coal, well adapted for burning it, and a kill for that purpose, are all conveniently situated about the middle of the property.

Being surrounded by the extensive preserves of the Duke of Cleveland and the London Company, the estate abounds with grouse and other game; and, from the nature of part of the ground, is peculiarly well adapted for shooting in the latter part of the season, when the birds are wild and unapproachable on open ground. The rees, one of the finest fashing streams in the north of England, is within an hour's walk.

The HOUSE, which is well adapted for a shooting-box, is pleasantly situated on the barker of the Squith Tyne; and there are COTTAGES and other OUTBUILDINGS, affording all that is necessary for an extensive grazing farm.

John Fenwick, the absplierd on the premises, will show the property and plans; and conditions of sale may be had at the Blage Bell Inn, Alston; the Queen's Mesal Inn, Newcastle-upon-Tyne; the Journat Office, Carlisle; of Mr. James Burnett, Jun., Ovington, near Gatesinead; Messrs. Chisbolome & Co., 64, Lincoln's Inn-fields, London; Messrs. J.

\*\*CHEADLE COPPER AND RRASS COMMENTS.\*\*

And R. Gibson, solicitors, Hexham; and Mr. Thomas Blandford, Corbridge, near Hexham, and R. Gibson, solicitors, Hexham; and Mr. Thomas Blandford, Corbridge, near Hexham, CARAMOOR MILLS, CHEADLE, STAFFORDSHIRE.

In consequence of the decease of partners in the CHEADLE COPPER AND BRASS COMPANY, their extensive WORKS at OAKAMOOR are now TO BE SOLD, OR LET ON LEASE, for a term of years.

The WORKS are in FULL OFERATION, and will be continued by the surviving partners until an acceptable offer may enable them to retire. The quality of metals manufactured at these works is well-known in the home and foreign trade, and has secured a most valuable connection.

Further information may be obtained on application to Mesers, Ingleby, Wragge, and Ingleby, Solicitors, Birmingham; Letham Hannor, Esp., solicitor, Liverpool; or Rupert Ingleby, Esq., Cheadle, Staffordshire; and the works can only be inspected by an order from either of these parties.

MR. JAMES CROFTS, of 4, KING-STREET, CHEAPSIDE, MINING BROKER, OFFERS his SEEVICES for the PURCHASE or SALE of MINING SHARES, and launes a daily Price Current, which may be had on application. Mr. CROFTS acts exclusively for Pericetals, and gives advice on contemplated investments, whether in dividend or speculative concerns—from the former of which an average income may be derived of 12½ to 15 per cent, per annum.

MR. CROFTS HAS SPECIALLY FOR SALE—

Tincroft (20 shares)

South Tamar (30 shares)

Woodman's Well and Broadridge Spearme Consols (40 shares)

Woodman's Well and Broadridge Spearme Consols (40 shares)

Trefusis (2 shares)

Woodman's Well and Broadridge Spearme Consols (10 shares)

Trefusis (2 shares)

Trefusis (2 shares)

Word Wheal Rabert (5 shares)

Word Wheal Forma (50 shares)

West Wheal Jewel (10 shares)

Bedford United (30 shares)

West Wheal Jewel (10 shares)

Bedford United (30 shares)

West Wheal Jewel (10 shares)

Bodmin Consols (10 shares)

Bedford United (30 shares)

Wheal Harris

No. 4, King-street, Cheapside, April 4, 1851.

MR. J. H. MANDEVILLE,
MINING AND GENERAL SHARE AGENT,
No. 22, CHANGE-ALLEY, CORNHILL.

MINING OFFICES, No. 75, OLD BROAD-STREET.—
Mr. T. P. THOMAS begs to inform his friends that he has REMOVED from
No. 3, George-yard, to the ABOVE ADDRESS, where he hopes to receive a continuation of their favours.

MINING OFFICES.—THOS. FULLER & CO., beg to inform their friends and correspondents that they have REMOVED to 51, TEREAD-NEEDLE-STREET, where they solicit a continuance of their favours, and all orders confided to their care will receive the best attention.

MESSRS. TREVARTON AND CO., MINING SHARE DEALERS AND BROKERS,—6, ST. JAMES'S-STREET, PALL-MALL.

MINING AND RAILWAY OFFICES, No. 3, CASTLETERRACE, EXETER.—M. JOHN JURY, RAILWAY and MINING SHAREBRÖKER, OFFERS his SERVICES to CAPITALISTS in the PURCHASE or SALE of
ANY DESCRIPTION OF PROPERTY; and will be happy to point out a selection of
such atock as appear the most eligible, from data that can only be arrived at by those who
give an undivided attention to the subject.—Every information afforded (either in person
or by letter) to capitalists wishing to invest or exchange their securities, and sales or puychases effected upon the best terms, and at one-half the commission usually charged.

MR. JOHN DAVIES, MINING SHAREBROKER, No. 38, TOWER-BUILDINGS, TOWER-GARDEN, LIVERPOOL.

FENTON, STAFFORDSHIRE POTTERIES.

FENTON, STAFFORDSHIRE POTTERIES.

VALUABLE COAL AND IRONSTONE MINES.—

TO BE SOLD, BY PRIVATE CONTRACT, with immediate possession, the soveral MINES of COAL and IRONSTONE lying under certain closes of land, situate at FENTON, in the parish of STOKE-UPON-TRENT, in the county of STAFFORD, called or known by the names of the HANGERHILL PASTURE, the HANGERHILL MEADOW, and a portion of the HILLALEE FIELD, containing in the whole II acres, or thereabout; which said land lies on the west side of the turnpike-road leading from Stoke to Longton, and is bounded on the west by properties belonging to J. C. Smith, Esq., and William Baker, Esq.; and on the east by a trammoral leading from Fenton to Longton. The following are the names of the mines:—

COAL MINES.

COAL MINES GREATROW MINE IRONSTONE MINES
BASS MINE CANNELROW BASS MINE
PEAGOCK CHALKY
SPENCROFT KNOWLES CHALKY

SPENCROFT

KNOWLES

CHALKY

The above MINERAL PROPERTY possesses great and undoubted advantages, and among them may be mentioned that of the seams lying near the surface—of the principal portion being drained by adjoining collieries—of its being calculated to be brought into full play with a small outlay—of its close vicinity to the railway stations and canal, and to the manufactories in Fenton, Longton, and Stoke-upon-Trent—of the superior quality of the coal—of the excellency of the ironstone, which will command a ready sale in South Staffordshire—and of its being in all respects such as to secure a steady and profitable return upon the amount of the purchase-money required.

For price and particulars apply to Mr. Thomas Brindley, Cobridge Colliery, near Burslem, Staffordshire.

ANTHRACITE COLLIERY.—VALUABLE COLLIERY
IN PEMBROKESHIRE, now in full work on the Lower Lovel Vein of Coal, which
commands a ready sale in the London market, and is most valuable for Malting, Steam
Purposes, &c., TO BE LET, with immediate possession, with the ENGINES, MACHINERR, RAILWAYS, PLANT, and IMPLEMENTS. A new pit has been sunk about 60
fathoms, to reach the famous Kligetty Deep Vein, and is believed to be within 15 fathom
of this vein, which produces the purest ANTHRACITE COAL yet discovered, and rea
less the highest prices from maltsters.
The colliery is distant only four miles from the harbour of Saundersfoot, with which
there is direct railway communication from the pit's mouth.
For further particulars and terms apply to Messrs, Banken, Ford, Longbourne, and
Vickerman. solicitors, Gray's Inn, London; Mr. H. P. Goode, land agent, Haverfordwest;
or Capt. Stephenson, harbour master, Saundersfoot, Pembrokeshire.

PLAENAVON IRON AND COAL COMPANY.—Notice is hereby given, that the ANNUAL GENERAL MEETING of the shareholders of this Company will be HELD at their offices, Paneras-laue, London, on Friday, the 25th of April next, at One o'clock precisely, when the accounts and transactions of the past year will be laid before them.

By order of the board, JAS. BOOTH, Secretary Coffices, 4, Paneras-laue, London, March 28, 1851.

ALRHIEW COPPER AND LEAD MINES.—The share-holders are informed that the next BI-MONTHLY MEETING will be HELD at the office of the Company, No. 11, Adam-street, Adelphi, London, on Thursday, the 17th inst., at Twelve o'clock.

MPERIAL BRAZILIAN MINING ASSOCIATION, Winchester-house, Broad-street, London, April 1, 1851.—The TRANSFER BOOKS will CLOSE on TUESDAY, the 18th instant, and re-open on the day after the General Meeting, in May, of which due notice will be given.

GEORGE THOMAS, Acting Director.

TINCROFT MINING COMPANY.—Notice is hereby given, that the ANNUAL GENERAL MEETING of the shareholders of this Company rill be HELD here on Wednesday, the 30th day of April inst., at Two o'clock precisely, Salvador-house, April 3, 1851.

TRELEIGH CONSOLIDATED MINING COMPANY.—
The Directors, hereby give Notice, that a MEETING of the shareholders will be HELD at the office on Monday, the 7th April next, at One o'clock precisely, at which the accounts for six months, ending 31st March inst., will be submitted.

57, Old Broad-street, March 19, 1881.

WM. NICHOLSON, Secretary.

ST. ALLEN, CORNWALL.—In 6000 shares. Deposit £2 per ahare.
APPLICATIONS for SHARES in the ARDVE MINE to be made to Mr. ALF. LYONS
BELLINGER, at the offices of the Company, I, St. Michaelts-alley, Cornhill, where re
ports, plans, and every information can be obtained.

WEST CALLINGTON SILVER-LEAD MINE NEAR CALLINGTON, CORNWALL.—On the "Cost-book System."

Arrangements are now made to resume the WORKING of this PROPERTY forthwith
at a PROSPECTUS of the MINE will be ready for distribution in the forthcoming week
Dated April 5, 1851.

JAMES CROFTS, Secretary.

WOODMAN'S WELL AND BROADRIDGE CONSOLIDATED COPFER MINES,—NEAR LYDFORD, DEVON.

In 2048 shares.—Deposit £1 per share.

Prospectuses, and reports by Mr. Evan Hopkins and others, may be had on application of Mr. James Crofts, 4, King-street, Cheapside, London.

The Cost-book, it is at present intended, will be finally closed in 14 days, and the first leneral Meeting hold, when the mine will be put to work.—Applications for the remaining shares will be received in the interval.

SSAYING AND ANALYSIS.—ASSAYS and ANALYSES of MINERALS, METALS, SOILS, FURNACE, and all other MANUFACTUR PRODUCTS. INVENTORS and INTERDING PATENTEES assisted in PEE-CIING any INVENTION involving an intimate knowledge of chemistry.

NETRUCTION in all branches of ASSAYING, ANALYSIS, and METALLURGICAL

MANUFACTURING CHEMISTRY.
Dimmunications to be addressed to Mr. Mitchell 23, Hawley-road, Kentish Town.

MINING SUPERINTENDENT WANTED.—WANTED, INING SOPERIN ENDENT WANTED.—WANTED.

A PERSON possessing a practical and competent knowledge of Mining, who will have to SUPERINTEND. ADVISE, and REPORT on the various operations of the following MINES, in DEVON and CORNWALL—namely: Great Shebs Consels, Caradon Vale, Whoal Gill, Kingsett and Bedford, West Phonix, and Trethevy. His time will be required exclusively to be devoted to the above Mines, and for such services ine will receive a salary of Two HUNDERS GIFURES per annum. None need spply who do not possess a sufficient and superior practical knowledge of mining affairs in all its various operations. Applications to be made on or before Saturday, the 12th day of April insp. addressed to Mr. Henry Vatcher, Mining Offices, No. 8, Bedford-circus, Exeter.

TO FURNACE AND FOUNDRY MANAGERS. WANTED, a competent PERSON to undertake the MANAGERS.—
WANTED, a competent PERSON to undertake the MANAGERENT of the STAVELEY OLD WORKS: he must thoroughly understand the most improved modes of making iron and all sorts of castings; and, consequently, be well acquainted with engineering and model making. No one need apply whose character and abilities will not stand the test of minute inquiry.—Letters, stating terms and qualifications, and former services, to be addressed to Mr. Richard Barrow, Staveley Works, near Chesterfield.

WANTED also, a HEAD WORKING MOULDER.

TO COLLIERY OWNERS AND MERCHANTS.—A Gentleman, possessing a first-rate CONNECTION for the DISPOSAL of COALS among Manufacturers and Furnace owners in FRANCE, would be happy to REPRESENT the INTEREST of a respectable FIRM. References exchanged.—Address to "G. G.," at the office of the Mining Journal, 26, Fleet-street, London.

TO CAPITALISTS.—A Gentleman, having the SETTS of soveral very valuable TIN, COPPER, and LEAD MINES, in the best districts of CORNWALL and WALES, and also TWO first-class SLAB QUARRIES, in WALES, whales to meet with CAPITALISTS to AID him in patting them to FULL WORK, when immediate and vast profits may be relied on.—Address "A. Z.," care of Mr. Hoopen, Thavies Inn, Holbour, London.

TO CAPITALISTS—SOME HIGHLY ADVANTAGEOUS INVESTMENTS IN MINES AND SLATE QUARRIES.—For particulars apply better, from principals only, to "Alpha," at the office of the Mining Journal, No. 38, Ficei-street, London.

TO PIPE-FOUNDERS, ENGINEERS, AND GENERAL
CONTRACTORS.—WOLVERIAMPTON WATER-WORKS EXTENSION.
The DIRECTORS of the WOLVERIAMPTON WATER-WORKS COMPANY are prepared to RECEIVE TENDERS, to be sent in on or before Thursday, 10th April, as follows:—
For FIVE HUNDRED TONS CAST-IRON PIPING.
FOR SEVENTY SCREW COCKS—and
FOR SIX MILES OF PIPE LAYING.
Specifications may be had on application, either personally or by letter, to Mr. Marten, the engineer, 21, Snow-hill, Wolverhampton.

By order,
WILLIAM THORNE, Secretary.

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WILLIAM THORNE, Secretary. TO PLUMBERS, TIN-PLATE MANUFACTURERS, &c.
—SHARES of a VALUABLE PATENT, connected with, and important to, Persons engaged in these and other analogous branches of business, to EE DISTOSED Of.
Address "S. D. M." at the office of the Mining Journal, 26, Fleet-street London.

TO BE SOLD, BY PRIVATE CONTRAC interpretations of the Mining Journal, 20, Fleet-street, London, Journal, 20, Fleet, London, Journal, 20, Fleet

TO BE LET, in Lots, for MINING PURPOSES, in NORTH WALES, for a term of 21 years, all that EXTENSIVE RANGE Of METALLIFEB-OUS MOUNTAIN LANDS, part of the ABER HIRNANT ESTATE, within a few miles of the valuable Liangannog Lead Mines, the lode of which have been traced through the property, which is also intersected by various promising lodes, indicative of LEAD and COPPER—LIMESTONE abounds. The Crown claims have been redeemed.

Apply for particulars to H. Richardson, Esq., Aber Hirnant, Bala, North Wales.

AMB'S HOUSE QUARRY, situate within two miles of NORTH DELABOLE, CORNWALL, and less than one mile from the shipping place, produces SLATE equal in quality to any hilherto discovered in Wales or Cornwall. The party now holding this Quarry is desirous of DISPOSING Of ONE-HALF—that is, the person who may purchase a molety shall liave an equal share with the present lessee. To prevent misunderstanding, no one need apply who is unable to command £1000 Apply to Mr. William Sloggait, jun., Boscastle.

DYFFRYN ALED COPPER MINES,—LLANSANNAN, near DENBIGH, NORTH WALES.—TO BE SOLD, BY PRIVATE TREATY.

—This Mine has produced upwards of £10,000 worth of the richest copper ore, and is now being worked to a profit, but circumstances induce the prosent company to sell. Some of the present partners would take shares in a new-formed Company, and they hold the promise of a renewed lease at moderate royalties.

Apply to Mr. Thomas Evans, solicitor, Denbigh, North Wales.

AND LEAD MINES.—A SHARE in some valuable SILVER AND LEAD MINES.—A SHARE in some valuable SILVER and LEAD MINES is now TO BE DISPOSED OF. These MINES, which are situated in the NORTH OF EUROPE, have been worked for some years, and offer a most profitable return for the outlay of capital. None but principals will be treated with; and all applications are to be made to Messrs. Bevan and Goodeve, solicitors, No. 6, Old Jewry, London.

WANTED TO PURCHASE,—An HYDRAULIC PUMP-ING ENGINE, also to be adapted for drawing work out of a mine, either new or good second-hand; the size of cylinder, pumps, &c., to be fully particularised, and the price to be forwarded to Wylam Walker, Esq., Hesham; or Mr. Joseph Dinning, Lang-ley Smelt Mills, Haydon-bridge.—March 29, 1851.

REGISTRY FOR THE SALE AND PURCHASE

OF MINING SHARES.

DURRANT & CO., MINING SHARES, 58, LOMBARD-STREET, LONDON,
Beg to draw the attention of Capitalists to their REGISTRY for the SALE and PURCHASE OF SHARES.

Devon Great Consols
Carn Brea
Wellingtons
West Baller
Trolwmy
N.B.—Statistical information furnished on British and Foreign Mines.—No CHARES
made for the registration of shares unless business be transacted.

MESSRS. BOXALL & CO., MINE AND SHARE BROKERS, beg to inform their friends and correspondents that they have REMOVED from their offices, Crosby-hall Chambers, to No. 7, GEORGE-YARD, LOMBARD-STREET, where they elicit a continuance of their favours.—March 28, 1851.

MR. PEET, MINING AGENT, 48, THREADNEEDLE-STREET, is now prepared to OFFER his SERVICES in the FORMATION of MINING COMPANIES, on the Cost-book System; and also to CONDUCT the LONDON AGENCY of those already established. His offices are advantageously situated. Satisfactory preferences can be given.—London, April 5, 1851.

MINES.—MOLYNEUX & COLMINING and GENERAL SOUTH, and 6, WEST-STREET, FINSBURY-CIRCUS, have SHARES ON ALE in DIVIDEND-PAYING and OTHER MINES, which will ensure to CAPITADISTS the safest and most unexceptionable investment.

MOLYNEUX & CO., grateful for past favours, beg to call the attention of their friends to their newly-occupied OFFICES, No. 34, THREADNEEDLE-STREET, where every attention will be paid to the PURCHASE or SALE OF SHARES.

MINING AND SHARE OFFICES, ST. MICHAEL'S CHAMBERS, ST. MIGHAEL'S-ALLEY, CORNHILL, LONDON.

Mr. R. TRIPP has FOR SALE SHARES in the best DIVIDEND-PAYING MINES, including Devon Great Consols, South Caradon, West Caradon, Wheal Tremenyne, Margard, Trelawny, Mary Ann, Condurrow, Alfred Consols, Treviskey and Barrier, North Fool, East Pool, West Provisiones, Bedford United, &c.; and in others having present and prospective advantages, amongst which are—Holmbush, Bodmin Whoal Mary, Arthur, Bodmin Consols, West Alfred, Great Alfred, Hennock Lead, East Wheal Reeth, Merllyn, Wheal Lemon, Penzance Consols, &c., Mines. Foarigm: St. John del Rey, United Mexican, Linares, Copiapo, &c., Mines.

MINING SHARES.—Mr. HENRY VATCHER, EXETER, OFFERS his ADVICE and ASSISTANCE to PARTIES willing to INVEST in the ABOVE SECURITIES. Ten years' residence in Excels, logistics with periodical visits to nearly all the Mines in Devon and Coravail, enables him to become thoroughly socialized with their respective merizs.—Mr. VATCHER has at his command, at all times, to reside and experienced agonts, so that if any inspection is required, the same can be

## Transactions of Scientific Bodies.

MEETINGS DURING THE ENSUING WEEK.		
. Medical -33, George-street, Hanover-square	8	F.M.
Asiatic-5, New Burlington-street	2	P.M.
. Chemical-142, Strand	8	P.M.
		P.M.
		P.R'
		P.M.
		P.M.
		P.M.
. Geological - Somerset-house	8	
		P.M.
		P.M.
Pharmaceutical-17, Bloomsbury-square	9	P.M.
	81	
		P.M. 4
Royal Society of Literature-4, St. Martin's-place	4	P.M.
		P.M.
Astronomical - Somerset-house	3	P.M.
. Royal Botanic-Inner Circle, Regent's-park	3‡	P.M.
	Medical—33, George-street, Hanover-square Asiatic—5, New Burlington street	Medical—33, George-street, Hanover-square 5 Asiatic—5, New Burlington street. 2 Chemical—142, Strand 8 Entomological—17, Old Bond-street. 8 Entomological—17, Old Bond-street. 8 Entitals Architects—16, Grosvenor-street 8 Medical and Chirurgical—53, Berner-street 4 Civil Engineers—29, Great George-street. 4 Zoological—11, Hanover-square. 9 Syro-Egyptian—71, Mortimer-street, Cavendish-square 7 Geological—Somerset-house 8 London Institution—Finsbury-circus 7 Graphic—Thatched-house Tavern. 8 Pharmaceutical—17, Bloomebury-square 9 Literary Fand—73, Great Russell-street 2 Royal—Somerset-house 8 Royal Society of Literature—4, St. Martin's-place 4 Royal Institution—Albemarie-street. 8 Philological—London Library, 12, St. James's-square 8 Astronomical—Somerset-house 8 Astronomical—Somerset-house 8

#### GEOLOGICAL SOCIETY.

March 26. -W. Hopkins, Esq., (president), in the chair.

The following communications were read:-

1. On the Till of Caithness, by J. CLEGHORN, Esq.

2. On the Erratic Tertiaries of Cheshire, by J. TRIMMER, Esq., F.G.S.

2. On the Erratic Tertiaries of Cheshire, by J. Trimmer, Esq., F.G.S.

After referring to various papers, by himself and others, for proofs of the existence of a terrestrial surface on the western as well as the eastern side of the island, immediately before the glacial submergence, and for descriptions of the erratic deposits along the western coast, from the Mersey to Harlech, the author showed that these deposits are of great thickness in the interior of Lancashire and Cheshire, where the presence of marine shells and of grantite detritus is well known; and that the division, which he has established elsewhere, of upper erratics (gravel and sand) and lower erratics (till, or bould of clay), are persistent up to the edge of the Penine chain, with some slight exceptional modification. He remarked, also, that the variations of soil in tass, as well as in other districts which he has examined, are dependant on the extent to which the erratic tertiaries have been denuded, and on the depth and composition of an unconformable deposit thrown down on their denuded surface. The paper concluded with some remarks on the scratched boulders of the till, and referred to the Polar voyages for descriptions of the marine and atmospheric action of an arctic climate, illustrative of the formation of such detritus, and of the imbedding of it in the peculiar litteral deposits of an arctic sea.

3. On the Sequence of Events during the Pleistocene or Glacial Period, by

[We shall publish this paper in next week's Mining Journal.]

two snail publish this paper in next week's Mining Journal.]

Papers to be read on the 9th April:—1. On the Basemant Beds of the Inferior Oolite in Gloucestershire, by the Rev. P. B. Brodie, F.G.S.—2. On the Physical Geography of North America, as connected with its Geological Structure, by Sir J. Richardson.—3. On the Erratics of Canada, by Dr. Bigsby, F.G.S.

#### INSTITUTION OF CIVIL ENGINEERS.

INSTITUTION OF CIVIL ENGINEERS.

ARAIL I.—WILLIAM CUSITT, Esq. (president), in the chair.

The first paper read was "a Description of a Raft, or Float, used for Submarine Blasting, on the Works of the Hartlepool West Harbour and Docks," by Mr. T. Casebourne, M. Inst. C.E.

This machine was contrived in consequence of the clay, or marl, forming the bed of the channel into the harbour, being so hard, at a certain depth, that the ordinary dredging machine was found to have little or no effect, owing to its want of stability. The new machine consisted of a platform, or raft, supported by four legs, on each of which was fastened a rack, working into a pinion on the deck, so the platform could be raised or lowered at pleasure. The working level as obb tide was about 8 feet above the level of the ground, in which position to remained for about five hours, or five hours and a half, until the tide flow I again; during this time two sets of boring-irons were in use, working through wooden boxes, or tubes, which made holes in the clay 4 inches in diameter, and of the required depth, for receiving a cartridge containing 3 to 4 lbs. of powder, to which one of Blekford's fuzes was attached; the hole was then carefully tamped, and when the tide rose to the level of the platform or raft, the fuzes were lighted, and the raft was floated away to some distance. The cost of this apparatus, complete, was stated to have been 100.

The next paper read was "a Description of the Lockwood Viaduct, on the

the hole was then carefully tamped, and when the tide rose to the level of the platform or raft, the fuzes were lighted, and the raft was floated away to some distance. The cost of this apparatus, complete, was stated to have been 100. The next paper read was "a Description of the Lockwood Viaduct, on the Huddersfield and Sheffield Railway," by Mr. J. Hawkshaw, M. Inst. C.E.
This viaduct was described as consisting of \$2 semi-circular arches, each 30 feet span, one oblique arch of 40-feet span, and another oblique arch 70-ft, span, the latter having a versed sine of only 7 feet. The piers were 4 ft. 6 in thick at the springing, and had a batter of one-sixth of an inch to the foot. The total length was 1428 ft., and the height from the foundations to the top of the parapet was 136 feet.

With the exception of the stone ribs of the flat oblique arch, the string course and the coping, which were of ashlar, the whole structure, piers, arches, and parapet, was built of "snecked rubble masonry," composed of stones of all sizes, both as to length, thickness, and width of bed, laid in a thick bed of stiff mortar; but the beds and joints were roughly scabbled, so as to remove any projections, which might cause the stones to rock, or to act like a wedge on the course beneath, and the beds were laid as nearly horizontal, and the joints as nearly vertical as the nature of the stone would permit. The largest stones were so placed as to form a perfect bond for those of smaller dimensions, a sufficient quantity of "throughs" being also used, and the whole work so built that the workmanship of the inside and outside of the walls was of uniform quality, both as to labour and material. This description of masonry was only about one-half the price of ashlar, and though not, of course, capable of bearing the same incumbent weight as could be supported by solid ashlar, with a hearting of rubble, a mode of construction very frequently adopted.

The total cost of this viaduct, including the excavation for the foundations, the suffici

At the monthly ballot the following candidates were elected:—Mr. Eaton Hodgkinson, as honorary member: Messrs R. Brodie and H. Hubbè, as members; and Messrs T. B. Etty, J. Hill, J. Sherriffs, G. W. Stevenson, C. Waring, and Lieut. W. D. A. R. Short, B.E., as Associates.

The following papers were announced to be readed the meeting of April Stu:

"Description of Two Bridges over the River Don, and Canal, &c., at Spotborough," by Mr. H. Carr, Assoc-Unst. C.E.; "On a Method of Computing
the Quantity of Flood Water Passing over a Weir," by Mr. J. Leslie, M. Inst.
C.E.; and "On the Nominal Horse-Power of Steam-Engines," by Commander
Heath, of the Royal Navy.

Engineering Works in Ireland.—The great swivel bridge at Lough Athalia, the largest of its kind ever built, is almost complete; the moving mass of nearly 200 tens will be turned by a simple hand-gearing. The bridge over the Shannon will be about 500 ft. in length, consisting of iron girder openings, 165 feet spann, with a swivel bridge for navigation in the centre. The whole rests apon 12 cast-iron pillars sunk in the river, filled with masonry, and are now nearly ready to receive the super-structure.

The first manufactory for spinning by machinery in Austria has just been unded at a place called Eipel, on the frontier of Bohemia and Silesia.

PARGAMENT PROOF PORTSMOUTH TO PARIS.—On Tuesday evening last, at the Southwark Literary Institution, Mr. J. Clarke exhibited a panorama of a tour from Portsmouth to Paris, for the purpose of visiting the Gallery of the Lours. The panorama exhibited numerous highly-interesting views on the route, and finished with the interior of the large Gallery of the Louvre, with many copies from the most externed works of art with which this splendad building is furnished. The panorama is well executed, and is worthy of a visit is being on quite a novel plan.

VAN DIEMEN'S LAND COMPANY.

The annual meeting of shareholders was hester-street, on Monday, the 31st March,

JOHN CATTLEY, Esq. (the governor), in the chair.

JOHN CATTLEY, Esq. (the governor), in the chair.

The SECRETARY read the report, of which the following is the substance:—
The report referred, in the first place, to the special report made to the meeting of proprietors on the 26th of February last, in which the directors had recommended the entire giving up of their farming and other establishments, and depending in future only on the sale and letting of land, with a single agent to superintend the same, instead of their present signal and other establishments, and depending in future only on the sale and letting of land, with a single agent to superintend the same, instead of their present signal and solvings. However, the same instead of their present agent as counselors and advisers. Reference was then made to the late engagement existed, there were insuperable difficulties in attempting any material change in the plans of the company in the plans of the company; but the tenants having now become purchasers of their respective sections, and being finally settled upon the same, the object of the company in maintaining their expensive establishments was in a great measure attained, and there was no longer any necessity to keep them up, at a certain amnual loss. It was early lately that any material progress had been made in the sales of land, Up to 31st Duc., 1848, the amount received was only 8804, whereas, on the 31st Duc. 1849, it had increased to 29904. 6s.: but a very small part of this was paid in cash, the remainder being by bills at long dates. It was stated that, up to the 3 ist August, 1850 there was land occupied, &c., as follows:—

Occupied.

At Emu Bay

2055

Together.

Acres 7042

2799

Together ..... Acres 7042

The total population had increased during the year from 857 to 908 person

The total population had increased during the year from 857 to 908 persons.

The land sold up to June, 1830, was—at Circular Head, 1799 acres, and at Emu Bay 1327 acres, generally at 24, per acre; and in the townships of Stanley (Circular Head) and Burnie (Emu Bay) considerable sales had been made, at the average price of 202. a section of a quarter acre in the former, and 10% in the latter. The improvements in both places, during the past year, were very satisfactory, and at Stanley an hotel had been completed, built of stone, containing 30 rooms; also a browery, with store and malt kills attached. At Burnie there was also recently erected a convenient inn and brewery.

The chief agent further stated, in his advices, that a steam communication would shortly be established with Melbourne, which he anticipated would be of the greatest importance to the colony, and cause it to increase much more rapidly. The inhabitants of Emu Bay had made an urgent appeal to the company, for ad in constructing a break-water or jetty, which, from the very exposed situation of the roadstead, seemed absolutely necessary for the protection of vessels while loading the produce of the tenants. This produce, it was stated, would this year require 1300 tons of shipping. The inhabitants, to the number of 26, had subscribed various sums towards constructing the jetty, amounting in all to 320%. The directors proposed to aid the undertaking by a grant of 200%, regretting that the circumstances of the company did not justify their proposing a larger sum, which proposition was agreed to. The estimate for constructing a work to afford adequate protection amounted to 1800%. The nett amount received in London for wool sold during the past year was 1037%. 11s. The sales of live stock in the colony during the year 1849 amounted to 1764. 17s. 24.

The CHAIRMAN said they had just heard the report, and he begged to say that the directors, in that document, had stated everything which they though the transition of the company of the proposing a state

ccasion. Mr. HELME understood the report would be ready that day; and as the ac-ounts would be published, he thought the proprietors would have all they

occasion.

Mr. Helme understood the report would be ready that day; and as the accounts would be published, he thought the proprietors would have all they required.

The Chairman wondered how those gentlemen who talked most should be the least ready to attend the committee's meetings. Mr. Brooksbank appeared to be punctual in his attendance; and he thought the proprietors were indebted to him for doing his part. (Hear, hear.) He could only say that it was the wish of the directors from the first that the committee should have every facility given them; and he hoped it would be admitted that they had not refused any information that was asked. (Hear, hear.) It had been suggested that he should give some kind of summary of these reports for the information of the public. All he could say was that, if the company itself up to this time had not been prosperous, it was satisfactory to know that the settlers on their lands had been exceedingly prosperous. (Hear, hear.) He believed a more happy and prosperous population hardly ever existed. The last report from the clergyman was satisfactory in every respect. (Hear, hear.)

The people were occupied in clearing the lands and opening communications with the more distant places, by which their traffic would become more extensive and profitable to the occupier of the company's lands. It was well known that the great losses of this company had arisen from taking the produce of the settlers at fixed prices, but the last of this produce had been lately sold; and the wheat realised no more than 4s. 9d. a bushel at Hobart Town. That would close this unfortunate agreement as to produce, and they must be very glad of it. They might now look for better times—at all events, they would get rid of this annual loss, besides dispensing with the expensive farming establishments of the company. Mr. Gibson was ordered to go on as quickly as possible in disposing of the company's stock, and before they again met he should be able, no doubt, to give them a satisfactory report on this subje

date. Their resources were 300L balance at the bankers, 106L at Circular Head, 7835L in bills receivable in hand, and 188L debts outstanding. The bills drawn on the company and negotiated were something more than that amount. Of these bills receivable he might say that, although they were perfectly safe, they might not be regularly paid. This doubt had caused Mr. Gibson to draw on the company, but he had no doubt of this money being remitted back again from the colony. (Hear, hear.)

A PROPRIETOR asked if the directors had perfect confidence in Mr. Gibson? he meant in his management, as there was no doubt of his integrity. (Hear, hear.). He was told that the board meant to call on some of the respectable men of Hobart Town to assist Mr. Gibson.—The Charlman said, the instructions to assist Mr. Gibson were now being prepared.

Mr. HAMMOND observed that he had been asked to become an auditor, but he could not do so, because he had not paid his last September call. His reason for refusing to do so was because he could get no explanation from Mr. Howell as to a sum of 2000L, which appeared as borrowed in one account, and the other did not show that it had been repaid, although it was so understood.

The Secretary explained this matter by saying that the balance brought over on the 1st Jan., 1849, was the actual balance at the bankers. It sught to have been larger, and about the amount as stated in the account made out by the late secretary on the date of the 31st Dec., 1848. The company did not, however, lose the difference, because it was afterwards recovered from Mr. Howell's friends. (Hear, hear.)

ever, lose the difference, occase it was afterwards recovered from all. Howelf friends. (Hear, hear.)

A PROPRIETOR asked how their accounts stood with Mr. Howell, the late secretary?—The Chairman replied that there was still about 700L due. The directors and Mr. Howell's friends had subscribed to meet his deficiencies within that amount. A PROPRIETOR asked if that balance would be recoverable?

The Charman hoped that it would, as Mr. Howell had gone to California.

(Laughter). Since then he had written, through one of his friends, to know

how much still remained unpaid on his account, when he (the chairman) sent word back that he might safely remit 1000!. (Hear, hear, and laughter.)

A discussion took place in respect to the company greating 200!. towards the jetty to be erected at Emu Bay, when

The Chairman said it was only proposed to subscribe it when the jetty was actually made. The tenants had, at their first meeting, agreed to subscribe about 600!. for the same purpose. The erection of it would be of vast service to the settlers, and would increase the value of the land of the company.

A PROPRIETOR thought they ought not to grant this till the report of the committee should be presented.

A PROPRIETOR thought the 200!. might be awarded, as it would be conditional on the jetty being completed.—The report was then adopted unanimously. The retiring directors, Edward Marshall, Esq., Robert Helme, Esq., and Velentine Knight, Esq., were re-elected unanimously. Henry Hooper, Esq., was also appointed a director.

Messrs. Hooper and Walker were appointed the auditors.

Mr. Brooksbank wished some one to be appointed in his place on the committee.—Mr. Valentine Knight (a director) thought that Mr. Brooksbank should not retire till the committee made their report, for the appointment of that cast a slur on the conduct of the directors. (No, no.)

Mr. Hammond asked how many directors there were.

The Charman replied that they were now reduced to nine, with the chairman and deputy chairman, which was the minimum.

A resolution for making another call of 10s, per share was agreed to unanimously. Two portions of shares were then submitted to forfeiture, the first of 551, on which no payments were likely to be made, and the other of 611 shares, which the directors expected would be redeemed.

This being all the business, a vote of thanks was passed to the chairman and directors, when the meeting separated.

directors, when the meeting separated.

THE AMSTERDAM WATER-Works.—Exception has been taken to the prospectus of the Amsterdam Water-Works Company, chiefly on the grounds that the parties to whom the corporate right of construction is conceded by the Dutch Government have to be remunerated somewhat liberally out of the money subscribed, and that the amount of the proposed capital is unnecessarily large; but upon a mature examination of the undertaking, as it is now presented to the public, we confess that we do not entertain these objective opinions. The rights and interests of original concessionaires are always recognised on the continent. Their purchase, on account of the Amsterdam Water-Works Company, in the instance before us, is openly and even conspicuously pointed out in the prospectus; and it is only fair to conclude that the sum to be paid to them has been equitably assessed under the cognisance of the national authorities, by whom the affair is patronised. Indeed, there is every possible inducement for economy on the part of the Dutch Government, seeing that whilst the shareholders will undoubtedly invest their money in anticipation of permanently good dividends, the water must not be made too costly to the consumers; and that hence, besides the careful supervision of the directors, there will be the well-known caution and sagacity of the Dutch working to the same prudential end, whether as regards primary arrangements or the completion of the works. With respect to the proposed capital, these remarks will equally apply. In addition to them, we may observe that, as the prospectus states that "the nominal capital has been fixed at an amount which it is considered is larger than will ever be really required, in which case as portion of the instalments will not be called for," it is only reasonable to assume that Mr. Simpson, the talented and experienced hydraulic engineer, to whom the construction of the works is entirely confided, will exercise his own judgment upon the ornamental parts of the design,

prosecution—and at the official scientific, and confinering is forward, we need not hesitate very cordially to wish it success.

Increasing Application of Gas.—We had an opportunity, on Monday, of inspecting several ingenious models, prepared by Mr. Defries, the gas engineer, for exhibition at the approaching World's Fair, and designed to show the process of manufacture of gas, with its means of application. Mr. Defries is a very indefatigable man, and one who has done more towards popularising the use of gas than any of his compeers. Having overcome all objections, by the tested correctness and economy of his dry meter, and extensively introduced them into every description of public and private building, he produced a gas bath, by which 45 gallons of water can be heated, from 50° to 100° Fahr., in less than six minutes, at a cost of but 2d. for gas. Then came his gas stove—an elaborate improvement on which was among the articles referred to; and certainly, for utility and completeness, it is an invention that the patentee may be proud of—and in which even the hitherto waste gas is brought into requisition—involving, as it does, the means of heating, brolling, boiling, roasting, steaming, ventilating, and, when required, the regular coal fire, to heat the apartment, or contravene the prejudices of the employs. An extensive apparatus on this principle, developing its full uses, is being manufactured for the Exhibition, where it will certainly prove an interesting feature. We also had an opportunity of inspecting a method of melting wax by steam, which is well worthy the attention of those requiring its use, for cleanliness and entire absence of danger. The chief invention, however, appears to be an excellent method of lighting, heating, and ventilating—one of which is constructed at 145, Regent-street, and is well worthy the gas can be applied, and of which, we may add, the public appear to testify full appreciation by the extent of his business—40,000 of the meters alone having, we believe, been manufactured.

MODEL IN CANNEL COAL.—A highly-finished model of the monument erected in Pensher Hill to the memory of the late Earl of Durham, has been executed y Messrs. Waite and Howard, Newcastle, for the Exhibition. The scale is inch to a foot. It presents a very high polish, being entirely formed of the Camel Coal" found in Mr. G. H. Ramsay's colliery at Newcastle. The orkmanship exhibits an excellent combination of art and strength.

workmanship exhibits an excellent combination of art and strength.

NEW LOCOMOTIVE ENGINE.—The first of the new engines, built by Messrs, Robert Stephenson and Co., for the South-Eastern Railway, to work their Great Exhibition traffic, ran an experimental trip on Monday from London to Folkestone. The engine, with a first and second-class carraige attached, conveying Mr. R. Stephenson, M.P., Mr. J. M'Gregor, Mr. P. W. Barlow, and Mr. J. Cud-worth, lett the London-bridge terminus at 12.15 p.m. No trial of speed could take place until the Red-hill Jouncion was passed, a Brighton train being in front; but from this point to Ashford the journey was performed, without stopping, at an average speed of 60 miles an hour. The trial was regarded as actisfactory, the engine running at the greatest velocity without oscillation. The engine is constructed on Crampton's patent. The inside cylinders are 15 in. in diameter, with a 22-in. stroke; the driving wheels 6 feet in diameter. Mr. Stephenson, it is said, expressed himself much pleased with the engine, and the speed at which the journey was performed.

Carbonic Acid Gas Engine.—Prof. Saloman, of Harrodsburg, Kentucky,

speed at which the journey was performed.

CARBONIC ACID GAS ENGINE.—Prof. Saloman, of Harrodsburg, Kentucky, has successfully applied the entire power of carbonic acid gas as a substitute for steam in propelling mackinery for every purpose. The power of this gas has long been known to chemists, but their inability to regulate and govern it has prevented its use as a propelling agent. Prof. (Saloman claims to be able to control it with perfect safety; and that it will afford a power equal to steam in 1-50th of the space, and 1-100th part of the expense, dispensing with both furnaces and boilers. Experiments have recently been made in Cincinnati, which are said to be entirely satisfactory.—American Paper.

As the engineer of the Whitehaven and Furness Railway was boring between the termini of that railway and the Whitehaven Junction line, preparatory to commencing the tunnel, which is in fature to connect the two lines, he came upon a seam of excellent coal, not less than 7 feet thick, and very little below the surface of the ground.

The Gold used by Dentists.—The public and the medical profession generally are not aware of a very fruitful source of disease which arises from the introduction into the mouths of many thousand persons of metallic plates and other apparatus for the securing artificial teeth. These plates, &c., are nominally constructed of gold, but in point of fact, in innumerable instances, there is little or no gold used in the construction of them; silver gilt, or some still baser metal, is employed, which being acted upon by the acids of the stomach, produces a poison which insidiously undermines the health, causing cancer, and other diseases. The false delicacy of the sufferer, and his ignorance of what causes his complaint, prevent him from receiving such advice as would meet his case. This imposition on the public admits of a most simple remedy; it is merely compelling all persons who are employed in the trade or profession of making such plates, springs, &c., to have them stamped at the Goldsmiths'-hall, and a standard enforced which would guarantee the security of those by whom they were required.

Effectively a such a server of the content of the profession of the content of the

Whom they were required.

EFFECTUAL CURE OF A SEVERE COUGH WITH ASTHMA BY HOLLOWAY'S PILLS.—Mr. John Davies, of Lion-street, Milford, was afflicted for more than seven years with a most inveterate asthmatical cough, which several eminent surgeons, under whose care he had been at various times, could not relieve; he then resolved upon trying Holloway's pills, and fortunately he did, for this superfor medicine has effected a perfect cure. The cough has ceased, the sethmat is removed, and his respiration is as free as that of the healthlest person.—Old coughs, colds, whoesings on the chest, and shortness of breathmay soon be cured by Holloway's Pills,—Sold by all druggists, and at Professor Holloway's Pills,—Sold by all druggists, and at Professor Holloway's Pills.—Sold by all druggists and at Professor Holloway's Pills

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## A Compendium of British Mining.

BY J. Y. WATSON, ESQ., F.G.S.

#### WEST CARADON COPPER MINE,

NEAR LISKEARD.

This mine is situated in the parish of St. Cleer, and divided into 256 shares, 201. per share paid up. Market value, 1301. Conducted on the Cost-book System. Purser, Edward Anson Crouch, Liskeard; agents, Capts. Dunstan, Taylor, and Reynolds. West Caradon in extent is 370 fathoms on the course of the lodes, and about 420 fathoms north and south, and consists of two setts, called Downhill and Menadue, held on leases for nty-one years, from 1840, at 1-15th dues, the lords being Mrs. Fookes The mine commenced working in March, 1840, and first made returns

in 1841, from which period to the end of October, 1848, the copper ores sold have yielded 167,210*l.* 9s. 2d.; the outlay during the same time was 137,828*l.* 7s. 11d.—viz.: 89,025*l.* 10s. 2d. for labour, and 48,802*l.* 17s. 9d. for materials; whilst 33,344*l.* were divided as profit among the shareholders. The dividends paid to the shareholders since have been—

 In 1849—151. per share
 £ 3,840
 0
 0

 In 1850—77. 10s. per share
 1,920
 0
 0

 In 1851—27. 10s. per share (quarterly dividend)
 640
 0
 0

 Total ......£39,744 0 0

In 1850, the dividends were 1920L only, owing to damages paid to the Duchy of Cornwall for land destroyed, amounting to nearly 2000L, which sum was paid out of profits. West Caradon was the second mine worked in this district, South Caradon, to the east of it, having been discovered a few months previous. These two mines are situate on the extreme edges of two hills, a deep valley running between them; and on South Caradon proving so rich, the sett of West Caradon was obtained by other parties for a trifling sum, and has realised the large profits enumerated above. The adit level in West Caradon is 22 fms. from surface, and the deepest level about 150 fms. under the adit. Eight lodes in the sett have been found productive, and upon some of them of more recent discovery little has yet been done. The number of persons employed is about 505—viz.: 344 men, and 161 women and boys. The produce now sold is about 300 tons of ore per month, which at the present standard realises sufficient to give the shareholders a dividend of 2l. 10s. per share every alternate month, with a prospect, ere long, of a considerable augmentation. The machinery consists of four steam-engines, and the consumption of coals monthly for all purposes is about 90 tons.

South Caradon, the first and the richest mine of the district, was discovered about 16 years ago, and has divided about 64,000l. profit. I shall, In 1850, the dividends were 1920L only, owing to damages paid to the

South Caradon, the first and the richest mine of the district, was discovered about 16 years ago, and has divided about 64,000l, profit. I shall, however, give full particulars of this in a future Number, not having the correct statistics by me at the present moment. In this neighbourhood a great many mines have been tried, and given up; and Caradon Consols, Wheal Norris, and Wheal St. Cleer were once considered promising, and had large sums expended on them. Those still working are Gonamena, Craddock Moor, East Wheal Agar, and Caradon Copper (now called Trethevy): of this lot, although many thousands of pounds have been spent, Gonamena alone has returned any quantity of ore, the lodes in the others not having been proved deep enough. At Caradon United, just abandoned, upwards of 7000l were expended without meeting with ore; many, however, think that some of the lodes opened upon deserve a further trial. To the east of this a mine, called Tremar, has been put to work. These are all situated on the Caradon Hills, about three miles from the town of Liskeard, and where, previous to the discovery of South Caradon, no mine was worked, or even known to exist; and when it is considered that South and West Caradon alone have in the last twelve years paid in wages and for materials nearly 300,000l in the neighbourhood, the advantages and the importance of mining adventure are apparent, at least to those and the importance of mining adventure are apparent, at least to those who have the good fortune to live in their vicinity. At the present time the mines around Liskeard cannot pay less than 70,000t. a-year for wages

At Menheniotte, near Liskeard, and not far distant from the Caradons several new mines have been started upon the run of the lode of Tre-lawny and Mary Ann (described in last week's Journal), and of these the nearest to Trelawny is—

WHEAL VENTON.

Held on lease for 21 years, from 1850, at 1-15th dues. In 1024 shares; 3t. 15s. paid up—present price, 8t. Conducted on the Cost-book System. Committee of management in London, O. H. Smith, Esq., H. J. Blaksley, Esq.; secretary, Mr. John Watson; manager at the mine, Capt. Osborn. Operations were commenced in June, 1850, and an engine of 24-inch cylinder has been erected, the shaft sunk 30 fms. deep, and the lode cut at that depth of a very favourable character.

## BUTTERDON

Adjoins Venton to the north, and is held on lease for 21 years, at 1-15th dues. Conducted on the Cost-book Principle; but without London management or check. Purser, Mr. John Philp, Liskeard. In 812 shares—price 64. An engine has been erected here, the shaft sunk, and lode cut at about the same depth as in Venton.

## BANKRUPTCY OF RICHARD TREDINNICK, MINING AGENT

The last examination of Mr. B. Tredinnick, late of Threadneedle-street, City took place at the Bankruptcy Court on Saturday last, when Mr. Sydney appeared for the assignees, Mr. Lawrence for the bankrupt, and Mr. Linklater for the creditors (there are 51 of them in all). Mr. Nicholson, the official assignee, reported as follows:—

£8422 4 0

Showing deficiency of...  $\pounds 4144\ 14\ 7$ To which add, capital on the 1st Jan., 1850  $\pounds 7130\ 8\ 8$ Profits from thence to ead of Feb., 1851  $\pounds 2300\ 2\ 9\ -9430\ 11\ 5$ 

entry, by his clerk (Bousfield), who had acted as secretary to all the mines he had influence over.

The solicitors, pro and con., addressed the court on the subject of some plate, the bankers' pass-books, and upon other matters; but as the case is not yet decided, and the bankrupt may give satisfactory explanations, we shall make no comment.—Mr. Sidney submitted that the bankrupt ought to be required to file a better balance-sheet; he had been in business five or six years, and it referred back only to the last 13 months.—The Commissioner said the books certainly appeared on the face of them to bear out the bankrupt's statements. He had dealt very largely in shares, and had had many bankers. Some of the pass-books, however, were not forthcoming, which was a matter of great importance. He would not pass this examination till he saw how the entries in the pass-books corroborated the beautiful figures of Mr. Bousfield, for figures might be made to prove anything. Connected as the bankrupt had been with so many transactions during five or six years, he ought not to be allowed to draw a line so recently as the beginning of last year. He must make a clean breast, and show the creditors, though he might have kept bad books, what the real nature of his dealings had been. The examination must, therefore, be adjourned, the assignees must present their requisitions to the bankrupt, and abundance of time must be allowed him to give his answers.

Mr. Sidney said he would prepare such requisitions. After some further conversation, an allowance to the bankrupt of 2l. a week was agreed to, and the examination was adjourned till the 29th May.

Long Wire.—Amongst the most remarkable productions from Birminghas at the Great Exhibition, there will be a piece of iron wire for the purposes of the electric telegraph, a mile long. This is the greatest length of wire that he ver been drawn; it is from the mill of Mr. John Cornforth.

#### PROGRESS OF MINING-DIVIDENDS, &c.

The following are the dividends paid during the month of March, 1851, from 22 mines in Cornwall, Devon, and Cardiganshire, to which we add a short concise account of each :-

Mines.	Per share	. 6	Total.
Devon Great Consols	£8		£8192
Carn Brea			3000
Wheal Buller	. 20		2560
Lisburne (Cardiganshire)	. 20		2000
South Frances			1984
East Wheal Rose			1920
North Pool	. 15		1500
Perran St. George	. 11		1450
Alfred Consols	. 1		1280
Treviskey	. 10		1200
Bedford United	. 1		1000
Wheal Golden Consols	. 1		1000
Great Work	. 75		8924
Wheal Lovell	. 2		860
North Roskear	. 5		700
South Tolgus	. 21		640
South Caradon	. 21		640
Tremayne	. 1		512
Spearne Consols	. 1		512
Botallack	. 5		500
Wheal Margaret	. 3		336
Wellington	. 1	******** **	256
Total		<u>E</u>	32,9544

DEVON GREAT CONSOLS continues at the head, and from her large returns monthly, her present prospects, both in depth and length, we anticipate she will stand in her present enviable position for a very long time to come. The shares (1024) have advanced in value during the last quarter from 255L to 305L, having risen 30L per share the preceding quarter, making respectively an advance of 7 per cent. and 20 per cent. The present price of shares is equal to the dividends of five years.

the dividends of five years.

CARN BREA (Illogan) comes next in order, and although her quarterly sale of copper ore is considerably below that of the preceding one, the return of tm ore has enabled them to continue the same amount and rate of dividend as for the last 18 or 20 months. Shares in this mine have remained from 115t. to 125t. for twelve months past, equal to 8½ years' purchase. The underground operations are very extensive, and the prospects in many parts are exceedingly good.

WHEAL BULLER (Redruth) is third on the list, and here a greater marked advance, both as regards the value of the mine and market price of shares, is visible. Operations commenced in Midsummer, 1848, with an outlay of only 10t, per 128th share. The fortunate proprietors have already received, within twenty months, 142t. 10s. per share (18,240t.) in dividends. The price of shares has varied as follows during that time:—June, 1849, 320t.; Dec., 380t.; June, 1840, 650t.; Dec., 750t.; March, 1851, present price, 1100t., equal to 9 years' purchase. The prospects are as good as the most sanguine shareholder can desire. South Wheal Frances (Illogan) has paid 16t. per 248th (3968t.) during

chase. The prospects are as good as the most sanguine shareholder can desire. SOUTH WHEAL FRANCES (Illogan) has paid 16L per 248th (3968L) during the quarter, out of the profits made from copper and tin raised in the four months ending January: her prospects warrant the assumption that the present rate of dividends will be continued, those for 1851 exceeding 1850. The estimation which this mine is held in is evinced by the Share List. In January, 1850, the price of a share was 155L; March, 210L; June, 290L; Nov., 310L; Dec., 326L: the present price is about 305L, which is less than 6½ years' value of the dividends. During 1849 and 1850 she divided profit of 73L 15s. per share.

EAST WHEAL ROSE (lead and silver, Newlyn, east)—dividends, 301. per 128th (38401.), which is rather below the quarterly average of last year: we understand they are likely to keep up the present rate, if not increase it. Shares, however, have receded in price from 6001. in Jan., 1850, to 5001. in March, 4751. in June; they advanced in Sept. to 5201., and in Dec. were 6301. each; down again in Feb. to 5751., and are now about 5501. which is 63 years purchase, according to the rate of dividends paying. During 1849 and 1850 she divided profit of 2651, per share (33,9201.) profit of 265l. per share (33,920l.)

profit of 2651, per share (33,9201.)

ALFRED CONSOLS (near Hayle) has paid 13s. per share dividend on 5120 shares, being 83281, for the four months' ore raised ending Jan. This mine went to work in 1846, incurring an expenditure of 89601., and commenced paying dividends in Nov. last. The proprietors have received since then 53761, in dividends and shares are at this time marketable at 181, 103., or 94,7201, for the mine, which is about 94 years' value. As yet they are only down about 4 fms. under the 80; the lode is from 4 to 6 ft. wide, with favourable indications. It is from the 70 and higher lovels the samplings are derived, where they have a very fine course of ore.

TREVISKEY (Gwennap)—dividend 25*l.* per 120th (3000*l.*) for the four months aisings of copper to end of Jan. The amount divided as profit in this and the sarrier ground, from 1846 to the present time, is 221*l.* 15s. per share (26,610*l.*), resent price about 240*l.* each, which is 3½ years' value of the bi-monthly diviends. The quantity of ore sampling, however, is rather on the decreasing rder, which accounts for it.

order, which accounts for it.

NORTH POOL (Illogan)—dividend 30l. per 100th (3000l.) for the four months' raising of copper ore ending Dec. The fortunate adventurers commenced operations in 1845, and expended 4500l.; since then the profit shared among them has been 27,500l.—say, 275l. per share. The lode in the bottom level is more productive than it was above; they have a fine course of ore, and are likely to increase their future samplings. The prices of shares, on 1st May, 1850, were 450l.; 1st Sept., 400l.; in Feb., 450l.; March, 510l., which is about the market value now, or 53 years' value at the present rate of dividends.

value now, or 5\frac{3}{3} years' value at the present rate of dividends.

SOUTH CARADON (near Liskeard)—dividend 5\frac{1}{2}, per 2566th (1280\frac{1}{2}), for the four months' ore raised to end Dec. They are also a fortunate company of adventurers, having commenced working about the year 1836, and upon the trifling call of 2\frac{1}{2}. 10s. per share (640\frac{1}{2}) speedily met with success. From that period until the present time they have divided 250\frac{1}{2}, per share, making 64,010\frac{1}{2}. They have a splendid lode gone down under the 40. The eastern shaft is sunk to the \tilde{0}0 fm. level, and they are driving to get below the orey ground they had above, which is likely to increase their future samplings considerably. Shares in Jan., 1850, were about 100\frac{1}{2}. each; May, 135\frac{1}{2}. July, 145\frac{1}{2}. Oct., 102\frac{1}{2}. 10s.; Dec., 100\frac{1}{2}. the present price is 115\frac{1}{2}, which is about 7\frac{3}{2} years' purchase, according to the dividends making bi-monthly.

[We shall continue our analytical notices in next week's Journal.]

We now furnish particulars of the calls made during the month of March :-

Mine.	Pe	er sh	are.		T	ocal.		
Bodmin Wheal Mary	£	0	0	£	2048	3 0	0	
Boringdon Park	(		0	*******			ő	
Carvannall				*********	316		0	
Craddock Moor	(			*********	108		0	
Crane and Bejawsa	i				1536		ő	
	5				576		0	
Devon and Courtenay	i				416		0	
East Balleswidden	Ó				512		0	
	Ö			*******	512		0	
East Buller East Gunnis Lake	0			********	500		0	
	1		0		384		0	
East Tolgus	i	-	6	*******	700		0	
East Wheal Russell	-			*********				
Esgair Llee (Wales)	0		0	********	640		0	
Great Wheal Alfred	3		0	********	3072		0	
Heignston Downs	0	-	6		750		0	
Lelant	4		0	*******	1024		0	
Llwynmalees (Wales)	0	10	0	********	500		0	
Mineral Court North Buller (Gt. South Tolgus)	8	0.		*******	768		0	
North Buller (Gt. South Tolgus)	0	16	8	********	1000		0	
Pentire Glaze	0	5	0	*******	512		0	
Peter Tavy and Mary Tavy	1	0	0	********	1000	0	0	
Runnaford Combe	0	ō	0	*******	512	0	0	
South Dolcoath	1	0	0	*******	1100	0	0	
South Trelawny	1	0	0	*******	256	0	0	
- Tokenbury	1	0	0	*******	128	0	0	
Tolcarne	0	10	0		600	0	0	
Trefusis	1	0	0	********	512	0	0	
Tregardock	0	10	0		300	0	0	
Tremar (Liskeard)	0	5	0		256	0	0	
Trethevy	0	12	6		320	0	0	
United, Tavistock	0	10	0		512	0	0	
Warleggan	0	1	6		375	0	0	
West Alfred	1	0	0		1024	0	0	
West Shepherd	0	1	0		150	0	0	
West Virgin	0	2	0		102	8	0	
West Wheal Seton	2	0	0		400	0	0	
Wheal Augusta	ō	5	0		768	0	0	
Wheal Fortescue	0	10	0		512	0	0	
Wheal Henry	1	0	0		216	0	0	
Wheal Langmaid	ō	2	0		200	Õ	0	
Wheal Lemon	õ	10	o	*********	500	0	0	
Wheal May	0	5	0	*********	256	ŏ	ŏ	
Wheal Oak	o	5	0		270	0	Ö	
Wheal Venton	0	10	0	*********	512	Ö	0	
Wheal Vincent	0	5	0		227	10	0	
THEAT THEEH	U	0	0	********	441	1.1	U	

Total .....£ 27,905 4 0

## Original Correspondence.

ON THE EXTENSION OF MELLINOWETH NORTH DEEP ADIT, NEAR HAYLE.

NEAR HAYLE.

Sir.—As mines in the neighbourhood of Hayle and Gwinear are now becoming numerous and extensive, the continuation of the above deep adit towards the south would be of great importance, and is essentially necessary to the proper working of these mines. Had it not been for the Carnon deep adit, the Gwennap mines would not probably have been half so productive as they have proved.

In 1808, in consequence of discoveries of copper in Mellinoweth, near Angarrack Smelting-house, an adit was taken up about 100 fms. to the north of Mellinoweth, and driven south 300 fms. in that tenement up the valley from Angarrack Bridge, and several promising lodes were intersected. In 1824, a company of adventurers, under the direction of the late Capt. Thomas Teague, took a sett of Mellinoweth and the adjoining lands; and I gave them permission, as proprietor of that tenement, to continue the adit south; and about 30 fms. south they cut a lode near Trungle Mill, about 4 ft. big, on which they drove east and west about 250 fms.; and they appeared to be satisfied that it was the north lode of Treglisson, or Great Wheal Alfred. The adit was driven south about 80 fathoms in Nanspusker; so that it is now about 480 fms. in length, and its depth in and they appeared to be satisfied that it was the north lode of Treglisson, or Great Wheal Alfred. The adit was driven south about 80 fathoms in Nanspusker; so that it is now about 480 fms. in length, and its depth in Nanspusker is about 6 fathoms. If the adit were extended to Nanspusker Bridge, about 250 fms. further, it would be 10 fms. under Great Herland adit. The line from the present adit end to Nanspusker Bridge has Trungle on the east and Nanspusker on the west—grounds which, though in the best mining district in West Cornwall, have never yet been tried. The adit has cost about 50s, per fm.; and it would require about 500. or 600. to extend it to Great Herland, where ores to the value of some thousands of pounds have been raised above the present adit level of that mine. By continuing the Mellinoweth deep adit south, the water from another very important mine (Alfred Consols) would be discharged about 14 fathoms lower than at present. When the adit was taken up at Mellinoweth, it was stated that a short time previously a course of ore was discovered a few fathoms north of Nanspusker Bridge, and that some workings were made on it; but, the ground being unsettled, it fell in. These workings appear to have been north-east of Alfred Consols, and in the direction of Trungle. I have on two or three occasions, within the last few years, endeavoured to draw the attention of the public to the great advantages that would result to West Cornwall by the extension south of this deep adit; and I requested a surveyor to ascertain the levels extending to Wheal Clowance, who reported that the depth of the adit at Great Herland would be 10 fms.; at Taphard, near Lambo Mines, 830 fms. from Nanspusker Bridge, 25 fms.; and at Wheal Clowance, 40 fms; and that it would intersect at a great depth the lodes of Wheal Hope, Wheal Unity, Lamin, and other mines.

In 1843, I addressed a letter with the above views to W. J. Henwood, Esc., F.R.S., who in his reply stated, among other cheaventions.

and other mines.

In 1843, I addressed a letter with the above views to W. J. Henwood, Esq., F.R.S., who in his reply stated, among other observations, that "the subject is one of the greatest economical importance." Though not, perhaps, of equal importance with the Carnon and Gwennap south deep adit, yet the Mellinoweth deep adit would be of incalculable benefit to the mines in connection with the Gwinear district; and I hope that those who have influence as landowners, or as adventurers, in this mining district, will now give their support to the extension south of "The Mellinoweth north deep adit."—R. EDMONDS: Penzance, March 31.

#### DEVON GREAT CONSOLS MODEL WATER-WHEEL.

DEVON GREAT CONSOLS MODEL WATER-WHEEL.

Sir,—I am at a loss to discover the real motive which actuated your correspondent, who signs himself "A Shareholder," Cardigan, when endeavouring to decry the Devon Great Consols contribution to the Exhibition of the Industry of all Nations. It is perfectly true the "water-wheela" in question are nothing more than the application of an old principle to the economical (?) development of the mineral riches of the company's property, but, as such, an appropriate object for exhibition, inasmuch as great industry and skill has been exercised in the adaptation of a magnificent, but hitherto neglected, stream of water to an useful purpose. If your correspondent really be a shareholder, which I do not believe, as I do not find any one whose address is Cardigan, in the lists of shareholders, as returned to the Registrar of Joint-Stock Companies, he will have an opportunity, at the general meeting of the company, which will be held a few days after the opening of the Great Exhibition, of calling the directors to account for squandering their own and fellow-shareholders' money upon a thing devoid of "science, and behind the march of improvement." I emphatically say their own money, because the board, if I am correctly informed, represent, in their aggregate interest, seven-tenths of the concern; and as I know them all to be men of business, I cannot bring myself to imagine they would recklessly throw their money away, without due examination of the advantages, or otherwise, of any project. For my own part, I am perfectly satisfied with the adoption of the "principle and its application, as used in the early days of the late Mr. Gribble," notwithstanding it has cost more than 30 per cent. beyond the original estimate, in consequence of unforseen difficulties in the excavations of the ground, both for the leat and wheel-pit; and, moreover, should have rejoiced to see it extended, to turn idle every steamengine from Wheal Josiah to old Maria (which, however, is now scarcely advisable,

## DEVON GREAT CONSOLS MODEL WATER-WHEELS.

DEVON GREAT CONSOLS MODEL WATER-WHEELS.

Sir,—My attention has been drawn to a letter in your Journal of the 29th March, remarking on the models sent to the Exhibition of the two water-wheels erected at the Devon Great Consols Mines. With the paragraph in your previous Journal I was totally unconnected, but I trust it will be seen, when the Exhibition opens, that the models do "show beauty of workmanship," the credit of which belongs, however, rather to the men who framed them than to myself, I having merely designed and superintended the getting them up. Your correspondent is, however, mistaken in stating that the wheels themselves are of "iron"—they are of "wood; and although the "principle" on which water-wheels are constructed may not be very different now from what it was in 1751, I believe I have introduced in the two crected at the Devon Great Consols Mines all the improvements that have been made since that period. Your correspondent says the large "original wheel exhibits neither economy of power or expense, nor an improvement in principle or application." These points can be better discussed with the directors of the company than through the columns of your paper, and, therefore, I shall not enter into them in this letter; but as the annual general meeting will take place in May, when I shall be again in town to attend to the models, I invite your correspondent to be present at it—if he be a "Shareholder," as he signs himself, although I am informed there are none residing at Cardigan, from whence he dates his letter—and where I shall be happy to discuss the matter with him, and hope to be able to convince the meeting that "neither economy of power or expense, nor improvement in principle or application," has been lost sight of in the construction of the wheels in question. For the rest, I think the exhibiting models of wheels, performing the duty which these do, is only carrying out the proper objects contemplated by the projectors of the Exhibition of the Works of Industry of all Nations. At any rat

#### YORK COPPER MINE, STAFFORDSHIRE

SIR.—Noticing in your last Journal a report of the trial, at the Stafford Assizes, of an action by the proprietors of the above mine against the proprietors of an adjoining mine, and being resident in the county, and feeling great interest in mining generally, I beg the opportunity of stating a few plain facts respecting the property, which I hope may be considered worthy a space in your valuable columns.

respecting the property, which I hope may be considered worthy a space in your valuable columns.

The mine is situate in the township of Upper Elkston, parish of Alstonfield, county of Stafford, the property of his Grace the Duke of Devonshire and Mr. John Lomas, and held at very moderate dues, under a lease or grant for 21 years, of which there are only about two expired. The property is in one of the richest mineral districts in the kingdom, judging from what has already been explored, and the quantities of ore produced. There is a lode, No. 1, upwards of 50 ft. wide, producing fine green and blue carbonates, rad oxide, and yellow sulphuret of copper, yielding large and valuable quantities at the present level. No. 2 and 3 lodes are from 2 to 4 ft. wide, of similar character. No. 4 lode, east of the engine-shaft, is a very strong and kindly one, but little worked as yet—the operations being more confined to the west of the engine-shaft, where other lodes cross the above at different angles. The engine-shaft is sunt; 26 fms. below the adit level, and 19 fms. below all other workings, and at this time is entering on a stratum of limestone, congenial for ore, similar to that in other mines in the immediate neighbourhood, and which have been so celebrated for their great riches. They have a steam-engine of 40 in. cylinder, on the Cornish principle, and the requisite machinery for working to a considerable depth, with a crushing machine, and all other conveniences adapted for dressing oras, &c.

The mines in the five miles from a colliery, where coals are obtained at a

ressing ores, &c.

The mine is only five miles from a colliery, where coals are obtained at a

aconable price. It is within five miles of Leek, from whence the Trent and Issay Canal and North Stationahire Railway communicate with all parts of it includes. There is also the great advantage of an extensive smelting-ord at a short distance, the carriage being only 5s, to 6s, per ton, delivered. In concluding these remarks (of a miner of 30 years' experience), I cannot ut congratulate the respectable and deserving shareholders on the prospect of heir being seen amply remunerated for their patience and spirited outlay.

April 4.

#### PERRAN ST. GEORGE-GRANITE.

PERRAN ST. GEORGE—GRANITE.

Sin,—When this granite question was first started, I think it was to decide whether Mr. Watson was or was not correct when he said that cautious miners look for copper in or near granite. When "Argus," in reply, attempted to show the great distance of Perran St. George, Wheal Leisure, and Wheal Charlotte from granite, I then stepped in, hoping to set them right. "Argus," being rather inclined to doubt the correctness of my statement, I then referred to Capt. Pill on the mine for further information, which he kindly communicated, accompanied with other very useful remarks, and but few men will doubt as to his statement being correct; but I cannot for a moment think either of us have a right to call on him for measurements, plans, and explanations which might be detrimental to his employer. He has clearly decided the question as to granite being near those mines. The question now put, as to the quantity of copper actually risen from it, was no part of the former question. I agree with "Argus," that if Capt. Pill would voluntarily come forward, and answer these queries, it would be very interesting information; but we certainly have no right to call on him for it. Besides, who are those maps and measurements to be forwarded to? We surely cannot expect the tracings of all the district to be inserted in the Journal; and no private individual has a right to call for them for his own benefit. This also rests with Capt. Pill. I certainly have assisted to raise copper from St. George, and tin from the granite at Clegga; but it was in early days. I saw no men or boys working on the divan-courses referred to, consequently, my attention was not then called to them; and it is a query if they were then generally known to be there; and even now they are quite foreign to the origin of the question. It is a matter of detail. The real question is, whether it cann or cannot be laid down as a law that copper is not to be found to any extent in Cornwall or Devon, at a distance from granite, to introduce

mences the work.

These discussions would be very interesting if carried out, and particularly so if my worthy friend, "Argus," would give his name, either publicly or privately, as it is very unpleasant in these discussions to come in contact with a man who is standing in his own door, and no one knows him. In reference to "R. S.," and under press of present matters, I certainly shall take his advice, and govern my temper by omitting a reply.

N. ENNOR.

Wiveliscombe, March 28.

["Argus," like other of our correspondents, wishes to remain incognito, to avoid personalities, and the chance of ill-feeling. He has no object to gain but information by the controversy; and we are fully aware of his respectability and standing in the mining districts.]

#### CASSANDRA ANNE MINE.

CASSANDRA ANNE MINE.

Sire,—In looking at the list of prices in your Journal of the 29th March, I see the shares of a mine, called Cassandra Anne, divided into 2000 shares, quoted at 121, 51, supposed to be paid. Now, as you are at all times ready to receive communications which may encourage legitimate mining, I feel sure you are equally averse to publish anything in your columns that may mislead the public; I shall, therefore, feel obliged if you will insert the following in your Journal, that the public may judge for themselves whether the said mine warrants the premium which is on the shares. This mine, if it can be so called, is situated in a field near the village of Stoke Climsland, and is part of a sett granted by the Duchy under the Assessionable Manors Act, on the land of Sir W. P. Call, Bart. The whole workings consist of some half-dozen costening pits, in one of which there is a small branch of flookan mixed with rubble, and the rock below is a hard dark-coloured coarse slate. The opinion of several respectable mining captains in this neighbourhood is that there is no lods worth working upon in that part of the country, and certainly they have not as yet discovered anything to warrant a price which places the mine at the extraordinary value of 24,000.—as much as Holmbush, where the prospects are really good, and a large sum of money has been expended to develope the mine. I have no wish to injure any party by the above statement, but whilst the present great speculation in mines is on foot, I think it as well to endeavour to save the unwary from losing their money.—W. B. Call: Whiteford House, Stoke Climsland, March 31.

ON THE USE OF SLANG TERMS IN MINING.

## ON THE USE OF SLANG TERMS IN MINING.

Cinstana, March 31.

ON THE USE OF SLANG TERMS IN MINING.

Bespected Sir,—I am an old gentleman living upon an income derived from my own industry, in a remote part of the county of Cornwall, and a steady reader of your interesting Journal. I cannot pretend to the possession of the advantages of a classical education, nor such other refinements as belong to the classes above me; but, nevertheless, I have an intuitive dislike to the nes of words derogatory to a subject, and coming under the designation of "slang"—the utility of which, when proper words are at hand, I have not been able to discover, or to find their elucidation in the pages of Johnson or Walker. So it occurred to me, whilst reclining in the old arm-chair after dinner ("my custom always of an afternoon"), that I would ask your opinion on the matter, and have called for pen and ink for that purpose, much to the surprise of my only domestic, who, when I rang the bell, brought in the pipe and tobacco, as awal. Well, Sir, a mine has several other names. Hurl, which I am told is derived from a Spanish word, and what the "old men" called it, I suppose, centuries since, but subsequently corrupted into "Whetal." to which I hold no sort of objection. Then we find in BALIS may have something to de with it. In an unfortunate speculation, however, generally the slang title is alone used; so we have not a "knocked" mine, but a knocked "BALI" and what is still worse, as if knocked was not vulgar enough, the word "KNACKED" is brought into play—a late use of this term is in your last Journal, referring to a mine somewhere in the east, but out of my latitude, called Vincerr; and it his is not the height of slang, I should like to know what is. But, still worse, it has a disagreeable association; for I read in our Cornish weekly paper, wherein the London news is carefully copied, that great efforts are just now making to destroy or remove out of the heart of the city certain localities called "KNACKERS" YARDS;" but the subject is disagreeable enough without further

## WHEAL VINCENT.

Sm,—I see in your last Journal a letter from Capt. Spargo, complaining of the non-payment of a sum of money alleged to be due to him for labour, &c.—the et cetera, as he states, consisting of money, the particulars of which he deems it et cetera, as he states, consisting of money, the particulars of which he deems it unnecessary to mention. One story is frequently good until the other is told. I should like much if Capt. Spargo, or his friend, "A Looker On," will have the goodness, before he finds fault with the illiberality of the adventurers, to inform you how many hundreds, I may say thousands, of their money were foolishly and recklessly squandered away during the time the management of the mine was in his hands. Why was he dismissed from his situation as captain? The experiment of the wind-machine for crushing the tin ore has been reported by competent parties to be a gross failure. That windmill piece of humbug cost the adventurers a large sum of money, whilst Capt. Spargo modestly asserts that '2', would cover the expense. The adventurers have had quite enough loss to sustain already, and they are not disposed to be further imposed upon, either by Capt. Spargo, or his fidus achates, "Looker On."

\*\*London\*\*, April 4.\*\*

## THE WIND-MACHINE AT WHEAL VINCENT.

THE WIND-MACHINE AT WHEAL VINCENT.

Sir.—In perusing your valuable Journal this afternoon, I perceive that at a meeting of Wheal Vincent adventurers they had come to a determination to resist the payment of wages, &c., due to Capt. Spargo, in consequence of his having erected a wind-machine, which, they assert, proved a failure; to which I beg to remark that, being one of the men who worked in the shaft at the time the machine was erecting. I feel justified in stating that, although the writer was being pumped by horse-power, yet the wind-machine, when set to work, entirely set the horses at liberty, acting remarkably well, and forked 4 fms. of water in two hours. The only reason I can give for its not continuing to act, was from the want of pumps—the lode being large, with good stores of the. It is true Capt. Spargo about this time made an important discovery eastward; and the suspension of this part might, of course, be somewhat owing to that.—Theophilus Plint: Stoke Climsland, April 3.

#### WHEAL VINCENT.

WHEAL VINCENT.

Size,—It is to be regretted that Capt. Sparge, in his letter on the subject of the "wind-engine," in your last Journal, should have made a statement as to the cost of the same so wide of the facts. The question as to the expense to the company of the erection of the machine does not confine itself to the "fit poles and deal axles," but to all materials and labour used and paid for in and thereon, of which a moderate estimate, as I am informed, would be at least one-hundred pounds; and although the items making up this sum could with difficulty be traced and separated from general charges in the cost-sheets, it is only necessary to visit the spot, and inspect the immense excavation (several fathoms deep), and the machine itself, to be convinced that the toy must have cost a very large sum. "A few fir poles and an axle, costing a few shillings," would not constitute an object visible for miles around, to say nothing of the sails, which, if not struck, are now idly disporting themselves in the wind. I would beg to offer a word of advice to Capt. Sparge, and that is to propose to the company to remove the machine; or it may, by remaining where it is, obtain a name not very flattering to the reputation of its projector.

April 3.

An Adventurer in Wheal Vincent.

#### KENMARE AND WEST OF IRELAND MINING COMPANY.

KENMARE AND WEST OF IRELAND MINING COMPANY.

Sir,—It is at all times with regret that observations should be required on mining operations, which may possibly have the effect of militating against the general interests; but there are moments when we (excuse the editorial expression) should be neglectful of our duty, if attention was not directed to schemes which must in the end prejudice the mining interest generally, by the sacrifice made by parties who, embarking capital, possess no further knowledge than that conveyed by the prospectus. Now, Sir, were the prospectus put in a straightforward shape, I should not offer any observation; but when I find that not one, two, or three, but some twenty of these productions, which only cost the printing, are placed before the public, and that parties are humbugged (excuse the expression), I do consider it a dary imposed on you, as Editor of a paper which assumes, and does possess, a power of directing attention of capitalists to mining investments, to expose abuses, which I regret to say are too frequent, as also your notices with reference to new projects—those only acquired from the prospectus test[, or, possibly, furnished you by the promoters. I have now before me several prospectuses, to one of which I will alone call attention, although I might refer to others, which, with your sanction, will form subject of further notice.

The "Kenmare and West of Ireland Copper and Silver-Lead Mining Company" comes out with 20,000 shares, of 1*l*. each. Now, I have no doubt whatever but that the mines are worthy of working, and the conveyance of "right of search and mine for minerals of every kind, free of all dues and royalites," is a desirable speculation; but I would ask, you, Sir, whether it is fitting that a prospectus of a company, consisting of 20,000 shares, should be put before the public without any communication of the "purchase" money, or, perhaps, I might asp the "pocket" money, required? I know something about the property, and I believe it in itself to be good;

A Welsh Copper Mine is, comparatively, a rarity, notwithstanding the free extension of crpital to mining undertakings in the principality, as well as elsewhere. Wales is chiefly distinguished for its lead mines, which are abundant and rich, and will always command the market, both from their superior quality and from their near neighbourhood to the great smelting-works. Moreover, no foreign competition can much affect the home lead mines. The case is, however, somewhat different with respect to copper. The richness of many of the foreign and colonial copper beds gives them an advantage which must, especially in these days of free trade, sooner or later affect the interests of such of the home copper mines whose produce is not above the present average standard. This will be more especially the case should the process of smelting abroad be extended, as is threatened. The best chance for the home mines competing successfully with such foreign and colonial products, should the latter go on increasing as they have increased of late years, is by the discovery of copper lodes of a superior standard, for any favourable reduction in the present working costs of the home mines would have but partial effect. Attention has of late been especially called to this matter, and it is, therefore, not without interest we have read the reports and the certificates of assay of the copper discovered in the manor of Builth, in Radnorshire, and the adjoining ground. The specimens submitted to us are very rich, the assayed value being 33 per cent. of pure copper; and, if in the progress of the works the produce should turn out anything like this sample, which is represented as even less than a fair average, having been dug out promiscuously at different times in the progress of the works, it may be fairly pronounced as a discovery of value and importance. The Nant-y-Car and the Dalrhiew are the two mines to which we allude. The shares in the latter, which were allotted at 30s, are selling at 10t, although operations have but recently A WELSH COPPER MINE is, comparatively, a rarity, notwithstanding the free extension of capital to mining undertakings in the principality, as well as else

Penchaig Lead Mining Company.—This property is situate at Llanrwst, North Wales, and the present owners having erected machinery, opened the mine, purchased stores, &c., with a view to a more effectual development of its resources, propose to work them by an influential public company, the terms of the prospectus of which will be seen in our advertising columns. Out of soveral valuable lodes one only has yet been worked, from which 2000, worth of ore has been sold, raised from the shallow depth of 32 yards. A report from Captain George Davey states that the present water-power and machinery is sufficient for all the contemplated works—that the profit on 2000, worth of ores would be at least 1000.—and that better produce, and, consequently, still better returns, may be expected in depth. The sinking of the engine-shaft is being continued, and is now 9 fins. under the lowest adit. There is an excellent shipping place at Trefrew, three miles distant, and the general appearances give great promise of a productive mine.

Mining in Scotland.—The mines of the stewartry of Kirkcudbrightshire are progressing most satifactorily. The workings on the copper lode, on the Cally estate, which had been suspended, are again resumed, to the joy of the people of Gatehouse, who had just to lament the breaking up of their cotton factory. We have been informed on good authority that a rich course of copper ore, from 15 to 18 in. thick, has very recently been opened on, of rich quality, having assayed 29 per cent.—a large specimen is, we understand, in the Exhibition. At Black Craig, near Newton Stewart, about 29 years ago, a lead mine was in operation on an extensive scale, and making fair returns, but a disagreement having taken place between the proprietors and land owners, the works were abandoned, and laid idle until about two years since, when a lease was obtained by some English adventurers. All the old workings are secured, a powerful engine erected to drain the yet untouched bottom level, crushing and dressing machinery constructed on the newest and most approved principle have been obtained, and there is every hope of large returns. A sett adjoining Black Craig has been obtained by another English company, where a powerful engine has been erected and in full operation. A vein of lead ore of great promise is also being opened on at the mines of Wood-of-Cree, on the Earl of Galloway's estate; also at Silver Riggs, the lead ore of which is particularly rich in silver—bis lordship possesses a massive service of plate manufactured of silver from this mine. The influx of so many individuals connected with the exploration of these mines, and the circulation of so much cash as wages and cost of materials will create, must greatly benefit the neighbourhood, particularly Newton Stewart and vicinity. st of materials will create, must greatly benefit the neighbourhood, par ticularly Newton Stewart and vicinity

IMPROVEMENTS IN BLASTING.—At Carnsew Quarry, near Penryn, on Saturday afternoon, one of Copeland's cartridges was fred in a 12-feet hole. The cartridge was 18 lbs. weight, including fuse, &c.; it was put into the hole where there was 7 ft. of water, which, as a matter of course, made the lower layers of tamping very imperfect, notwithstanding which the execution of the charge was immense—nearly a thousand tons in all being harled into the quarry, or removed for working purposes, without injuring the stone or fracturing the collar of the hole, the tamping remaining perfect. Although the depth of the hole was only 12 feet, the charge finding its way through the fissures at the base, acted to the depth of 24 feet.

DISGRACEFUL AFFAIR.—On Monday the pit-rope at Stanley Colliery, be longing to Mr. Barber, was nearly severed by some evil-disposed person. During the night, several of the workmen had ascended and descended singly; had they been altogether loss of life must inevitably have ensued. We understand a reward is offered for the apprehension of the scoundrel, and we trust, if discovered, he will meet with a most severe punishment.—Derby Reporter.

## Mining Correspondence.

#### BRITISH MINES.

ALFRED CONSOLS.—The lode in Field's engine-shaft, sinking under the 80 fm. level, is 6 ft. wide, composed of carples, spars, and mandle. The lode in the 80 fm. level, east of said shaft, is 5 ft. wide, 2 ft. of the north part is producing a great quantity of mundic, intermixed with copper ore; the lede here is, we consider, improving in appearance very much. The lode in the 70 fm. level, east of the engine-shaft, is 7 ft. wide, 4 ft. of the south part is good for copper ore, worth 50f. per ton. The lode in Wyld's shaft, shaking under the 60 fm. level, is 4 ft. wide, yielding some good stenes of copper ore. Our tribute pitches are looking well. Our copper sampling for next sale is computed 279 tons.

puted 279 tons.

BEDFORD UNITED.—In the 115 fm. level, east of engine shaft, no lode taken down. In the deep level, east of Andrews' winze, the lode is 2 feet wide, half of which, on the north wall, is good work. The lode in the 103 east is 3 ft. wide, and will yield 6 tons of ore per fm. Aracott's winze in the 90 is holed to the 102. The lode is Parker's winze, in the 103, is 3 ft. wide, producing a little saving work. In the 90 the lode is 2 ft. wide, producing saving work. We continue to drive by the side of the lode in the 80 fm. level. We are still driving north in the 47 fm. level. We sughed off at Morwelham on Friday last. January ores are sampled; February ores computed 140 tons.

in the 80 fm. level. We are still driving north in the 47 fm. level. We weighed off at Morwelham on Friday last. January ores are sampled; February ores computed 140 tons. BLACK BURN (Westmorreland).—In the low level the beds continue horizontal, but with every appearance of a strong with in the immediate neighbourhood; backs are crossing more frequently, and we still meet with nodules of mundle imbedded in the solid lime—a strong feeder of water comes from the bottom of the lime. On the 29th inst. they had fouched a back showing more strength than any we have lately met with, but in a few days we shall see what it is like. The circulation of air is defeave, but not so bad as to materially affect the working, and no difficulty on this head is anticipated before reaching the veins. At Scarberry we have sunk in the vein 23 ft., the last 4 ft in what appears to be the thick part of the great lime. The vein is 3 ft. wide, and the ore continues improving as we go down, showing a disposition to collect into a rib, with more rider and less cauk. There is now about 4 cwts. of ore per fathom. We intend sinking down to the low fiat, and then driving west in it, to prove the point of the vein, its general appearance, &c., if the water does not stop us. About 15 fms. north of shaft we trenched Forster's vein, and obtained ore close to the surface, the width, strength, and mineral appearance being nearly the same as Scarberry vein. We purpose driving a level in the plat under the Quarry Hazle 70 fms. to the point where Forster and Scarberry veins are in junction on the west side of [Inner Gill vein, and from the appearance of these veins near the surface, may fairly expect a mine in the Hazel; and, as the 4 fm. lime below is not likely to hold water, it can also be worked from this level. The ore we now have in Scarberry vein would pay for siltting out, if the level was up under it.

BODMIN CONSOLS.—We have opened a course of lead and copper in the 13 fm. level, north of the engine-shaft; the lode is about 2 feet wide, wort

have discovered some branches dropping into it.

BODMIN WHEAL MARY CONSOLS.—The plat is completed in the 20.

No. 3 lode, in the 20, fm, level, is 18 in. wide, all saving work. The pitches in the back of the 10 are progressing well. In the 10 fm. level west, on No. 1, the lode is large, and more kindly for ore. The 10de in the stopes in the back of Sparge's drift, 8 fms. below addit, on No. 1 lode, is 3 ft. wide, producing 2½ tons of ore per nn., at a cost of 18s. per fm. We have a full number of hands dressing ore, and putting to pile 2 tons per day. The lode in the western winze is 2 ft. wide, producing good stones of ore.

BORINGDON PARK — Since lest report the end has been driven about

lode in the western winze is 2 ft. wide, producing good stones of ore.

BORINGDON PARK.—Since last report the end has been driven about 8 fms., and in that driving we have intersected a branch which appears to be running nearly north and south, and which has turned out some good dressing work. We have cut through the lode about 5 fms. east of the branch, which is upwards of 12 ft. wide, with two well-defined walls; and, in a word, I do not hesitate in saying, a more promising lode cannot be seen in its infant state in any mine in Devon. I intend commencing our engine-shaft next week, which will be pat down with all possible dispatch. The men are getting on with the leats as well as can be expected.

BRYN-ARIAN.—The appearances in the different bargains are much as last reported, with the exception of the lode in Hallett's shaft, which has been much disordered in the last few days by several branches of jack intersecting it; but to-day the lode appears to me more settled, and will yield about 15 cwts. of ore per fm. The 10, west of the shaft, is in a lode 6 ft. wide, with several small branches of ore, but not of much value. The winze shafting under this level is producing 10 cwts. of ore per fm. The stopes in the back and bottom of the deep adit level, west of the shaft are producing from 12 to 16 cwts. of ore per fm.

BUTTERDON.—The south end is driven 65 fms., where the lode is 4 feet

of ore per fm. The stopes in the back and bottom of the deep adit level, west of the shafe are producing from 12 to 15 cwts. of ore per fm.

BUTTERDON.—The south end is driven 6½ fms., where the lode is 4 feet wide, and much the same as when last reported; there is some clvan coming in the bottom of the end, from which I hope a change for the better will take place in the lode; the ground is favourable for driving—present price 30s. per fm. We have commenced driving north also, where the lode is 3 ft. wide, composed principally of spar and prian—present price 40s. per fm. The shaftmen are set to cut the plat, which will be done with all speed (and hope to be able to keep the end driving at the same time), after which we shall fix the plunger-lift and commence slaking.

CARTHEW CONSOLS.—In driving the 85 fathom level end north we are opening tribute ground, and the lode is very much improved of late, and, from present prospects, a much greater improvement may be expected shortly. The lode in the 75 fm. level end on the continuous to look very well, as does also the lode in the south end of this level, where we are laying open good ground for tributers. The south end in the 65 fm. level has a very fine appearance, the ground being very easy, and the lode yielding a good amount of lead and copper. The north winze in the 65 fm. level, but now holed to the 55 fm. level, whereby this part of the mine is well ventilated, and a very good lode's seen in either end of this winze from the back of the 75 to the bottom of the 65 fm. level, the note, the velle is down to the 75 fm. level, but not yet holed, the end not being quite up to it. On Monday we intend commencing to sink the middle shaft from the 65 fm. level, have long completed the preparatory work. The tribute pitches are much as when last reported.

CHYPRESE CONSOLS.—In driving the anging shaft north, which we have

as when last reported.

CHYPRASE CONSOLS.—In driving the engine-shaft north, which we have done 11 fms., we intersected an elvan course, which we have now got through, and have in the end a beautiful killas, with some soft branches of clvan mixed with it, and having more water issuing from the end. I think there is every prospect that we are getting near the lodes; we have driven a cross-cut south 11 fms., the end is in white killas and fluor-spar, very soft, and there is every indication that we are getting near the lode in this end. The engine-shaft and pitwork are all in good order.

DEVON AND COURTENAY.—The lode in the 50 end west is 5 ft. wides

this end. The engine-shaft and pitwick are all in good order.

DEVON AND COURTENAY.—The lode in the 60 end west is 5 ft. wide with a leader 18 in. wide, and the other part of it is good saving work, except a small horse of kills, about 3 ft. high and 9 in. wide, which divides the lode; it does not reach to the bottom of the end, and very small in the back. The lode in the east end is poor, and in a disordered state, by a cross-course now crossing the end. The lode in the 30 is 3 ft. wide, and has a very promising appearance, but still poor. In Carthew shaft we have a hard floor of ground at present, therefore our progress is rather slow. In Rundle's shaft we are in a fine channel of ground, and getting on most favourably.

EAST BALLESWIDDEN.—We have fixed the lift 3 ft. deeper under the adit level, making 23 ft.; and the ground to that depth is all worked away for tin. We came to an arch of ground about 6 in. long, and from 8 to 10 in. deep, where the lode was from 7 to 9 in. wide; and what I broke made a produce of 21, per sack of 14 gallons; we could save one-third to itself, and then the produce would make 31. 10s, per sack. I never saw so kindly an appearance for tin in any mine I have been acquainted with as I have seen in this; and I rest perfectly assured that, we have out through EAST CROWNDALE.—In the 50, east of middle shaft, we have out through

EAST CROWNDALE.—In the 50, east of middle shaft, we have cut through EAST CROWNDALE.—In the 50, east of middle shaft, we have cut through the cross-course, and likewise the elvan course south, and discovered a good bunch of thi, 3 ft. wide; as yet no south wall of the lode. This looks encouraging; and we hope it is a continuation of the bunch we drove through in the 40. The 40 stopes in the tack are tinny, but poor; the stopes in the ide of the 40, south of the elvan course, are producing fair tinny work. In our tribute department we have no alteration. In another month we hope to commence sinking from the 60 at the middle shaft.

EAST SHARP TOR.—I have nothing new to advise you this week respecting the ground in Hitchins shaft; it continues of the same character, and is tolerably

EAST TAMAR.—The 70, morth of Furzehill shaft, has been extended 7 fms. 4 ft. 6 in. during the past month, lode on an average yieding 9 cwts. of ore per fathom; it is easy for driving, and opening good tribute ground in whole to the 60. The 60 has been extended 5 fms. 4 ft., lode 3 ft. wide, and worth 10 cwts. of ore per fathom. Harris's winze, in the bottom of the 69, and 5 fms. north of the 70 end, is down 5 fms., and will be holed in the present month—the lode on an average will yield 10 cwts. of ore per fathom. In the 60, south of furzehill, the lode is 2 ft. wide, worth 7 cwts. of ore per fathom, ground more favourable for driving, and congenial for lead. In the 26, north of Church-lane shaft, the lode is 4 ft. wide, a close tight can, carrying about 5 cwts. of ore per fm, and likely to improve. The rise in the back of the 60 to the 46 fm. level has been holed, and the water completely drained from the old workings, underground shaft, and as Whitson, for nearly 200 fms. in length; we, therefore, have placed more men on tribute to advantage. At Gullett's we have been inconvenienced from heavy rains, and not made much progress in clearing the deepest level, which is 55 fms. below the deep adit, and 80 fms. from surface. The pitches generally are improved, and nearly all set at low tribute, so that we may reasonably expect to have an increased quantity of one for our next sampling, and it will yield a greater profit for some time past.

EAST WHEAL GEORGE.—We have taken down the branch on the east side of the cross-course in the 23 fm. level, from which there is some good work; it is EAST TAMAR .- The 70, north of Furzehill shaft, has been extended

EAST WHEAL GEORGE.—We have taken down the branch on the east side of the cross-course in the 23 fm. level, from which there is some good work; it is now within 18 in. of the main tode; this level is let to 6 men, at 51. 5s. per fm.; the 23 weat to six men, at the same rate: we propose to drive on the course of the branch, the ground being more favourable for exploring. We have let the winze to sink in the bottom of the 12 fm. level, 10 fms. east of shaft, to fm rmen, at 50.s. per fm. The lode in the 12 east is from 4 to 3 ft. wide, carrying a branch of ore on the north wall—let to two men, at 53.5s. per fm.; the stope in the back: of the 12 west is yielding fair work—let to two men, at 24s. per fm. We expect to sample March ores on Monday next, 22 tons. We have dropped the mew lift, which is now in course of working; it has made a difference of two strokess a minute to the wheel. We broke the crank on Saturday, which prevented my setting the bottom levels before to-day (April 2).

The following is a report which has just been received from Mr. Jehu Hitchins:-Timisticci.—At my late visit to this property, on Wednesday last, I was greatly pleased with the ore I saw at surface dressing up for sale, as also the appearances underground, a very brief description of which will suffice to possess you of my general opinion of your mine workings and prospects here. In the first place, the lode is an extraordinary one, having yielded so large a quantity of rich copper ore above the back of the 12 fm. level, at only a few fathoms below the surface. This level has now reached to extent of the ore ground west, and getting near the surface is now very properly stopped; this branch of ore, of course, is but limited, and further returns to any considerable extent must, in this part of the mine, be expected only in depth. The end driving east in this level is on a large sparry lode, with fine stones of copper ore in it. I think that in this direction these is a great chance of meeting another deposit of ore, and should, therefore, advise its being continued. In the 23 fm. level cross-cut south, at about 4 ft. before reaching the lode, a splendid branch of rich yellow copper ore, from 4 to 6 in. wide, is to be seen, which, as as can now be assertained, is running parallel with the lode itself, which has also been cut through, and found to be from 5 to 6 ft. wide, composed of large sparry capsis, with numdic and yellow copper ore disseminated, and very promising. Ends bothcast and we have to be driven on its course; these I should advise being extended about 5 fms. each way, and then to cut into the branch of ore before noticed, to ascertain its direction and character at these two points; the levels can then, be resumed driving as efficiently and character at these two points; the levels can then, be vesuaded the with, and I have Taviatock.—At my late visit to this property, on Wednesday last, I was greatly ple ith the ore I saw at surface dressing up for sale, as also the appearances undergro

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a good opinion also of the eastern ground, although you may have to drive some greater distance in that direction. It is advisable, also, not to delay inking your engine-shaft; and this brings me to your present great difficulty, to which I think my attention is more present great difficulty, to which I think my attention is more particularly called—vin., the water engine wheel, its attachments, and the pitwork. The wheel, which is 36 ft. diameter, and 3 ft. clear in the buckets in breast, with a sufficient supply of water, provided it is to be procured, it equal to keeping the mine clear to a considerable depth, with a 12 inch box, and life to suit, and to work at but very little about a fair rate. Now, the wheel is flying at about nine revolutions per minute, or at a velocity of the periphery of nearly 17 ft. per second, when its its elgin is the calculated maximum effect. There is a 10 in. box or lift to the 13 fm. level, and an 8 in. lift to the 23; but as almost all the water falls through the lode to the 13 fm. level, the 8 inch lift is too small to supply the 10 above; it is, therefore, proposed to drop a 6 m. lift by the side of it, in order to match the other; this will reduce the present destructive rate, both to wheel, boxes, and pumps, to about 65 revolutions, or 13 feet per second, which is yet by far too fast. You are certainly not showing your wheel fair play, and its being at first built at of the very best materials, and even with those but alightly put together, you are the more likely to run it down; therefore, you have to decide whether you will soon erect another wheel, or at once obviate that alternative by at once substituting larger pumps, such as I advise—which is, replace those now in work with a 19 to 14 inch lift; either drawing or plunger, more particularly before you attempt to substituting larger; this will (taking the medium) reduce the velocity to about four or five strokes, or 8 to 16 feet per second, or leas, as the slower, in reason, the wheel is worked, the shaft deeper; thi

tion, but of the machinery, I certainly cannot speak in great praise, either for strength or sightly effect.

EAST WHEAL RUSSELL.—Our engine-shaft is sunk 9 fms. 3 ft. below the adit level; we should have been several feet deeper but for so much rain. The lode in the bottom of the shaft is looking most splendid; another of the north parts now soming into the shaft, full of the finest gossan, quartz, peach, prian, and tin ore intermixed.

ESGAIR LLEE.—Our setting was on the 29th March, of which the following is an account: "The deep adit, east of Morgan's winze, by six men, 4 fms. stent, or the month, at 51, per fathom; the lode is 4 ft. wide, looking very promising, and will on an average yield 15 ewts. of ore per fathom. The 12 fm. level, east of Morgan's winze, on the caunter lode, by four men, 4 fms. stent, or the month, at 32. los. per fm.; the lode is 3 ft. wide, and in quality and general appearance is much the same as when last reported, being composed principally of triable quartz, and producing some saving work. To stope in back of the deep adit, west of Morgan's winze, by four men, 8 fms., tent, or the month, at 32. los. per fm.; the lode is 6 ft. wide, with small branches of ore through it, and will on an average yield 8 evts. of ore per fathom. To stope in back of this level, west of ditto, by four men, 8 fms., or the month, at 22. 7s. 6d. per fathom; the lode west of ditto, by four men, 8 fms., or the month, at 22. 6d. per fathom; the lode winze, by four men, 8 fms., or the month, at 22. 6d. per fathom; the lode winze, by four men, 8 fms., or the month, at 22. 6d. per fathom; the lode winze, of ore per fathom. To stope in back of this level, west of Morgan's winze, of ore per fathom. To stope in back of this level, west of Morgan's winze, of ore per fathom. To stope in back of this level, west of Morgan's winze, of ore per fathom, the lode will yield about 8 evt. of ore per fathom. We are setting on with the dressing as well as can be expected, considering the severity of the weather—in fact, durin

weather—in fact, during the last three weeks we have not had one dry day.

GREAT POLGOOTH.—At Taylor's shaft, we are cutting shaft-plat in the 110 fm. level, where we have cut a branch containing a little tin. The lode in the 96 fm. level appears to be improving. The north lode, in the 84 fm. level, is 1 ft. wide, rich for tin; if it continues as at present, we shall be opening out some productive tribute ground. We may state that it is presenting a more pleasing feature than had ever been seen in this level. The lode at Boskilling has a promising character, and contains spots of tin. The tribute department continues much the same as for some time past. We shall hold our monthly setting for April on Friday, the 4th inst., when we latend letting several new bargains where we anticipate some important discoveries will be made. The sales of tin for the last month have been about 33 tons, at 501, per ton.

HEIGNETON DOWN CONNECONE — Neight About a down in Deider in the sales of the forther department of the sales of the production of the sales of the forther than the sales of the forther than the sales of the forther than the sales of the sales of the forther than the sales of the forther than the sales of the s

of tin for the last month have been about 33 tons, at 50t, per ton.

HEIGNSTON DOWN CONSOLS.—No lode taken down in Doidge's winze under the 45 since last report. The lode in the 45 east is much as last reported. The lode in the 35 east is carrying a leader of good yellow copper ore, 8 in. wide. The ground in the cross-cut south in this level is just the same. The lode in Hitchins' shaft is 4 feed wide, interspersed with copper ore. The lode in the 35 west is 3 ft. wide, producing good

saving work for copper ore.

HELVELLIN (WESTMORELAND).—In the old level the vein has split, sending off leads to the southward, and there appears great confusion—we expect this saries from the proximity of the cross vein. All the leads bear ore, and there is every symptom of highly metalliferous ground. In the low level we have driven 10 fms., of which 9 fms. is wholly in the sammel (loose stones, earth, &c.) The beds are now 4 ft. up in the fore-head, but they rise slowly, and at the present rate it will require 2 fms. driving before getting a close fore-head. The vein will be on the south side of the level, and must be near us, as the rock is traversed by leads, which, from their mineral appearance, evidently proceed from the vein. When driven a sufficient distance in the sound rock, I purpose cross-cutting to prove the vein or veins, and will then turn the level into the one offering most advantages for driving.

HENNOCK.—The engine-shaft is progressing as fast as can be expected—the character of the ground much the same. I have taken the men from the end, and put them to sink a wine under the 20, for rentilation, by the time the shaft is down to the 30 fm. level.

HOLMBUSH.—We have to remarked. Utaking down to the support the support of the control of the control of the support of the control of the support of the support of the control of the support of the s

HENNOUK.—The engine-shaft is progressing as last as can be expected—the character of the ground much the same. I have taken the men from the end, and put them to sink a winze under the 20, for ventilation, by the time the shaft is down to the 30 fm. level.

HOLMBUSH.—We hope to complete Hitchins' shaft by the end of April to the 132 fm. level, so as to enable us to fill the stuff from the plat instead of drawing it through the diagonal shaft by manual labour. We have cut the canuare part of the copper lode in the 132 fm. level south, which is 12 in. wide, producing stones of copper ore—we shall at once commence driving the level west on its course to intersect the lead lode; the stopes in the back of the level will produce 4 tons of ore per fathom. The lode in the 132, west of the diagonal shaft, is 12 in. wide, and will produce 1 ton of ore per fathom, and we are opinion that it will speedily improve. The flap-jack lode in the 120 fm. level, east of the cross-course, is 2 ft. wide, compassed of spar, mundic, and stones of ore. Improving as we proceed eastward; the same lode in the 110 fm. level, east of the cross-course, is 2 ft. wide, compassed of spar, mundic, and stones of ore. The lode in the 100 fm. level, east of the astern winze, will turn out 5 tons of ore per fathom. The lode in the 100 fm. level, east of the astern winze, will turn out 5 tons of ore per fathom. The lode in the 100 fm. level, west of Walls' shaft, is 4 ft. wide, composed of spar, mundic, blend, and stones of jore. We have commenced sinking Walls' engine-shaft bedue the copper ores last Friday (the 28th March), at Calstock Quay, computed 225 tons.

KIRKCUDBRIGHTSHIRE.—The lode in the 74 end, west of Stewart's, is improved; a little in size and quality, being 2½ ft. wide, and yleiding 8 or 9 evts. of lead per fm. The lode in the 50 end west of stiphris, is 3 ft. wide, and yleiding 8 or 9 evts. of lead per fm. The lode in the 50 end west is still without ore. The lode in the 40 end west is 3½ ft. wide, with give shaped a cargo of ore aga

LLWYMALEES.—We yesterday cut into beautiful ore in the 14 fm. level west; in the stopes over this level, west of western winze, for 3 fms. high, there is very good ore; in the stopes over the 14, west from western winze, and over the former stopes, there is an excellent course of ore. On Saturday last, there was a very fine-looking lode in the 24 fm. level west; and the 24 fm. level east looked pretty well.

NEW EAST CROWNDALE.—I have much pleasure in reporting that we are progressing with our surface work, &c., satisfactorily, since the cessation of so much rain. The roof of the smiths' shop, material and account-house, will be up by Saturday, and I expect the water will be in fork in the 14 fm, level by Monday next. I am happy to say the wheel and other parts of the machinery have not sustained any injury worth noticing since the suspension; therefore, I have every reason to believe that all the preparatory and necessary work will be completed in a proper manner, so as to cause no desay, by the time the steam-engine will be ready to work. I feel confident that, with a spirited trial, this mine will be productive of good results, taking a retrospect of the same lode wherever it has been fairly prosecuted to the west of this point, as I believe is generally known from the immense returns and profits made in the West Crowndale, Crebor, Liscombe, and Gunnis Lake Mines.

Liscombe, and Gunnis Lake Mines.

NORTH BULLER.—I have thoroughly inspected the underground operations of this mine. The Louisa engine shaft is now down 31 fms., the ground of the most favourable character. The lode that has left the shaft is 3 ft. wide, with rich stones of copper ore; three other lodes have gone through this shaft since its first commencement, all exceedingly promising, and which are to be seen in the shaft. It is thought advisable to saik this shaft down to 40 fms. before cross-cutting north, for these lodes are all near the shaft, and at that depth a cross-cut will also be driven south to intersect the Louisa this shaft down to 40 fms. before the character of the months, there is no deep from which was found rich copper on the back near the surface, so that there will be fixe lodes to prove at a depth of 40 fathens. Within two or three months, there is no to 36 fms., the lode greatly improved; the flat-rods are nearly finished, and will be fixed numediately. The steam-engine works well; at present there is but little duty for the angine to 60, being scarcely any water in the mine. The cross-course upon which the addit lovel is being driven is considered a great discovery, as it was near this same cross-

course our neighbour, West Buller, made such a rich course of ore. I thorought mined it, and found two very compact walls on eitherside, and by dialing it is explant King's lode will be cut in about 3 mms. I went through the accounts, which at infractory, and I Jam much pleased with the prespects of North Buller; this is not my opinion, but the opinion of every practical man that has seen the mine.

isfactory, and I am much pleased with the prespects of North Buller; this is not only my opinion, but the opinion of every practical man that has seen the mine.

NORTH WHEAL BULLER (or Great South Tollows).—The following report was read at the meeting, noticed in last week's Journal:—

We have commenced sinking the disgonal shaft below the 60 fm. level, and are now down about 11 ft. below thatlevel; there is a lode in this shaft about 20 in. wide, composed of spar and capel, with occasional stones of good ors in it; should the ground continue as it is at present, we expect to be deep enough to drive a 70 fm. level in about three months from this time. The 60 west and 60 cast have continued very much the same for the last two months; there is a large strong lode in each end, varying from 20 in. to 2 ft. wide. The 50 west has been driven through a very promising lode since our last report, and there is every probability of our meeting with ore as soon as we get under the ore ground gone down in the 40, which is about 20 fms. further west; this level has been sunk in the bottom of the 40, and which is now communicated; we have, in consequence, such in the bottom of the 40, and which is now communicated; we have, in consequence, much improved the ventilation, and shall be able to push on the 50 with all possible dispatch. The 40 west has been driven about 14 fms. during the last two months, through a very knowly lode, the last 4 fms. of which have produced about 5 tons of ore, but at present there is a small limb of a cross-course in the end, which has rather deranged the lode. The lode in the bottom of the level, since we have had this ore, has been much better than it was either in the end or back, so that we may hope for a still further improvement when the 50 gets under this ground. The 30 west has been supended to drive a cross-cut south to cut the south branch, which it appears we shall soon see, as we are now in the capel which adjoins the lode: as soon as we have nitersected this branch we had the sore that

Extracted from Capt. W. Sincock's weekly report, dated Redruth, March 22:—

"Our sumpmen are getting down very well with the flat-rod shaft from the 60 to the 70 on Buller lode; the lode is about 15 in, wide, of a very promising nature, producing good stones of ore and mundic, with spar, &c. The 50 fm. level is greatly improved, and we have every reason to calculate on its producing agood bunch of ore as we pursue it in extent, having a good lode gone down in the level above about 20 fms. before it. The 40 fm. level, which has been passing through a small branch of a cross-course during the week, is now in settled ground, and producing good ore, which we anticipate will yet improve. The adit level, on Mill lode, continues very promising, and in depth, we have no doubt, will be very producitive, which our 30 fm. level cross-cut will prove; besides, the lode in the adjoining mine north, in the same channel, is good."

PENTIRE GLAZE.—We have driven about 2 fms. in the cross-cut in the 22 fm. level, towards the intermediate lode, through a soft elvan, intersected by small branches of spar, lead, and copper, which, most probably, are branches running through the horse of ground between the two lodes, and at the point where they intersect the lodes will most likely enrich them. The lode in the 10 fm. level driving south is about 5 feet wide, producing upwards of 2 tons of lead ore per fm.; there is pretty much copper mixed with the lead at present, which will cause a little more expense in dressing, but the lead unquestionably is of good quality. The boundary shaftmen are now sinking a winze under the north stopes in the 10 fm. level, on the course of the lode, which is upwards of 3 feet wide, composed of gosam, prian, and spar, with occasionally a little lead. The lode in the 24 fm. level, above adit, is much improved, being from 15 to 18 in. wide, yielding about 1 ton of ore per fm.; of good quality. We shall clear the bottom level at South-hill on the 5th inst.

PENZANCE CONSOLS.—The agent has come up with a fine

the mine just as before.

PRAED CONSOLS.—It is very satisfactory to find that you are determined to work vigorously. I shall follow up your instructions as nearly as possible in those places where we are likely to meet with tin the soonest; and with that view I have put men to clear the north add, and hope to get into the place where the ting ose down in a short time. The men have made but little progress in sinking this week, in consequence of the heavy rains, the water having flowed into the workings; but we have put in launders and other things to carry it off, and they have again resumed their usual labours.

of the heavy rains, the water having flowed into the workings; but we have put in launders and other things to carry it off, and they have again resumed their usual labours.

SOUTH TAMAR CONSOLS.—The engine-shaft has been divided, cased down, and made complete to the 124 fm. level. The 124 is extended 2 fms. 2 ft. 6 in. south of the shaft; for this distance the lode has produced 12 cwts. of ore per fm.—this end is less easy for driving than the south end; the shaftmen are set to drive 3 fms. more each way, and will then recommence sinking the shaft, and cut plat, &c. In the 112 south we have driven 8 fms. 0 ft. 6 in.; the lode is 4 ft. wide, very easy for driving, and worth 14 cwts. of ore per fathom. The north end has been extended 7 fms. 1 ft., lode on an average produced 9 cwts. of ore per fathom, and worth that in the present end. In the 100 south we have driven 2 fms. 5 ft., lode is easier for driving; it was let on setting day, worth 5 cwts. of ore per fm. In the north end, in the 100 fm. level, the lode is large, and moderately easy for driving, but rather poor, worth 5 to 6 cwts. of ore per fathom. In the 90 south the rise to the 80 is holed, and men resumed driving—lode 4 ft. wide, composed of a flur-spar, worth 10 cwts. of ore per fm. presenting highly encouraging indications; the distance driven in the last month is 2 fms. 5 ft.6 in. There was nothing done in the north end last month, excepting the men having completed the winze to the back of the 100, and resumed driving it. The 80 south has been extended 3 fms. 4 ft.—lode 3 ft. wide, worth 7 cwts. of ore per fm., presenting completed the winze to the back of the 100 and resumed driving it. The 80 south has been extended 3 fms. 4 ft.—lode 3 ft. wide, worth 7 cwts. of ore per fm., and that taken.away by tributers 200 fms. The tribute department is in a very healthy, and that taken.away by tributers 200 fms. The tribute department is in a very healthy, and that taken.away by tributers 200 fms. The tribute department is in a very healthy, and the taken

SOUTH WHEAL TRELAWNY .- We still continue driving on the el south with six men: the above level is extended south of shaft 23 ms. 2 ft. 2 in.
ground is preity favourable; the lode is 20 in. wide, composed of flookan, soft spa mide, killas, and prian: the end is also discharging a great deal of water—more the r I saw before—and on the whole there is a decided improvement.

TRELAWNY.—Trelawny shaft is sunk 7 fms. 5 ft. below the 92 fm. level, and the ground somewhat harder. In the 92 end north the lode is  $3\frac{1}{2}$  ft. wide, and worth 92, per fm.; in the south end, at this level, the lode is 4 feet wide, and worth 77, per fm. In the 92 end north the lode is 4 feet wide, and worth 161, per fm. At the north mine, Smith's shaft is sunk 8 fms. below the 55 fm. level, and the ground is favourable. In the 95 end north the lode is 2 feet wide, and worth 92, per fm.; in the winze in the bottom of this level the lode is 2 ft. wide, and worth 92, per fm.; in the winze in the bottom of this level the lode is 2 ft. wide, and worth 93, per fm. There is no alteration in the stopes.

the lode is 2 ft. wide, and worth 3?, per fm. There is no alteration in the stopes.

TRELEIGH CONSOLS.—Christoe lode: In the 100 fm. level, west of Garden's shaft, the lode is 18 in. wide, with stones of ore. In the 90 fm. level, west of ditto, the lode is 3 ft. wide, worth 302, per fm. In the winze below the 80 fm. level the lode is 8 in. wide, with stones of ore. —Parent lode: At Parent engine-shaft, below the 52 fm. level, we are sinking in the country. In the 30 fm. level, east of ditto, we are driving to cut the lode east of cross-course. Burgess shaft is holed to the adit level; the men are patting in ladder-road and casing down the shaft, preparatory to sinking below adit.

TRELOWETH.—We have sunk the engine-shaft about 4 ft. since my last, and driven in the cross-cart 2 fms., daily expecting to intersect Penpo's lode; the distance is farther than was anticipated. The killas is good for the production of copper ore.

UNITED MINES (TAYISTOCK).—The new boiler that is to be an auxiliary to the one at the pumping engine has arrived at the mine, and will be fixed in its proper position in a day or two. The other requisites are being proceeded with with all possible dispatch, in order to commence the explorations in the different levels, as advised in my former report. There is not the slightest doubt of ultimate success, with a commensurate capital being employed to carry the proposed work into effect.

WARLEGGAN CONSOLS.—The lode in the adit end is 4 feet wide, mostly

warte capital being employed to carry the proposed work into effect.

WARLEGGAN CONSOLS.—The lode in the adit end is 4 feet wide, mostly aving work. The shaftmen will commence sinking under the adit this afternoon (28th farch). In consequence of the very severe weather for the greater part of the last ortnight the surface work has been greatly inidered, but I expect, if the weather proves avourable, to get out the wheel-pit by the end of another week.

WEST PAR COSOLS.—At Vounder's we are driving the 20 fm. level, east f Floyd's shaft, by six men.—a very promising lode; also stoping the back east, by six nen, good work in each back. In the 12 fm. level, driving west on Brown's lode, by four enen, the lode is about 2 ft. wide; from the tin in sight we may expect to raise a quantity fore from this lode. We are stoping the back of the 12 fathom level east by six men, reaking good work. At Floyd's shaft the ground is very favourable. Sarah's shaft as 1st reported.

WEST WHEST WHEST LEWEL La the 25 fm. level, was for William and the statement of the

reaking good work. At Feyn's same the grown as the grown as its reported.

WEST WHEAL JEWEL.—In the 85 fm. level, west of Williams' cross ourse, on Wheal Jowel lode, we still have to drive north about 8 ft. to communicate to he winze sank below the 70 fm. level. In the 70 fm. level, west of Williams' cross-course in the same lode, the lode not taken down in the past week—when last taken down word. per fm.; the 57 fm. level, west of Hodge's cross-course, on Tolcarne tin lode, is word. In per fm.; the stopes in the back of this level, on the same lode, are worth 30. per fm. be 57 fm. level, east of Hodge's cross-course, on the same lode, is worth 51. per fathom he shallow adit level, west of Tregoning's shaft, on Tolcarne tin doe, are worth 20. per fm.: the stopes in the bottom of the 12 fm. level, east of Tregoning's whize, on the same lode, is worth 52. per fm in the worth 24. per fm.—these stopes are working on tribute where the same lode, are worth 24. per fm.—these stopes are working on tribute worth 24. per fm.—these stopes are working on tribute worth 24. We continue driving east and west from the

WEST WHEAL VIRGIN.—We continue driving east and west from the

WEST WHEAL VIRGIN.—We continue driving east and west from the engine-siant, by six men; the lode in the east end has not been taken down since last report, but the appearance is as kindly as ever it has been since we commenced driving; the lode in the western end is just as last reported, producing good stones of tha. We shall put our horse-whim to work this week, and fix our plunger-lift, when this is completed we shall begin to return the. The mine thoughout looks exceedingly promising.

WHEAL ADAMS.—I beg to inform you that on Saturday and this day (March 31st) I have minutely inspected the different ends, stopes, &c., in this mice, and the following is my report on the different points in operation:—In the 72 fm. level the end has been driven this month 3 fms. 3 tt., and, although the lode has been large, it has produced but little ore, and the extreme end is worthless; we have, therefore, placed the men to cross-cut both east and west, to find a caunter part, and I trust a more productive lode than we now have. There must be another part citiet to the right or left, as the water in the 69 is not yet drained; immediately this is accomplished we shall commence rising and stoping the back. The winze in the 60 has a ficor of mundle in the bottom, and is consequently not very productive of lead at this moment; the lode is large and underlaying 18 inches in a fm. westerly. I fully anticipate an improvement in tize course of a day or two—that is, immediately the lode resumes its regular underlay, for it cannot, I am sure, underlay much further west. The 73 north is in capels, and is hard: I calculate we are about 4 fms. to the west of the lode, as the end extending north of the old engine-shaft, on the western silver-lead lode, is in a decomposed eivan, with veins of lead, accompanied by jack; we expect to extend this level opposite the old engine-shaft, we have cross-cut the lode, which is 2 ft. wide, and, although tis not rich, it contains more lead than we have seen in any cross-cut in this level; indeed, the

appears, and this is not strange, because we are getting out of the influence of the elvan course; the stopes in this level are producing good work—they are now turning out 15 outs, of lead ore per fim. In the 28 we have as promising a lode as can be seen; it will produce it no of lead per fim, and some fine stones of yellow copper ore. Surely there is a copper lode before us—we will persever and ascertain. I will report fully on the capabilities of the stamps in my next report. We sampled on Monday a percel of fead ores. At Aller we have intersected several cast and west branches of some promise, and have now reached a dyke traversing nearly east and west; we have left this and turned due east, to cut the flockan of the lead lode. The manganese mine I have not yet seen since my return.

have now reached a dyke traversing nearly east and west; we have left this and turned due east, to cuit the flookan of the lead lode. The manganese mine I have not yet seen since my return.

WHEAL ARTHUR.—The following is the substance of the report made by Capta. Lean and Trowren:—The above mine was worked 26 years ago to the depth of 50 fms. from surface, or 30 fms. below the adit level, on an east and wast copper lode, which yielded about 10,000f, worth of that mineral, the principal part of which was raised above the adit level. The principal workings, and where the ore was feand, were riched as the rear as side lodes of great promise in the backs, we should strongly recommend the same to be intersected by cross-cuts in the deep adit level, which can be done without the sid of steam-power; the ground being also moderate, great progress can be made in developing the same. No doubt these parallel lodes, when fully laid open, will be found productive each side of the cross-course, as the main lode was. One of these side lodes alluded to above is about 15 fms. south of the engine shaft, which produced 32 tons alluded to above is about 15 fms. south of the engine shaft, which produced 32 tons alluded to above is about 15 fms. south of the engine shaft, which produced 32 tons in the 20 fm. level to intersect it, on a north and south lead lode, 13 in, wide, a fair sample of which we took for 4 fms. in length, and had it carefully assayed—it made 70 per cent. for lead, and 100 ozs. of silver to the ton of lead, which is very satisfactory indeed. There are two advantages to be derived here, the first is the great chance there is to the lead and silver it will produce; and, secondly, it serves as a cross-course, north and south, to extend your levels to intersect the cast and west copper lodes; the ground being so much softer than it is in the country, such advantages are rarely to be met with. There is also a large stream of water, which can be made available for working a large whele for crushing allowed the such a

the lode, and I hope we shall complete it by the end of this month. I think we are certain to have a good course of ore in some of these lodes.

WHEAL AUGUSTA.—In the 18 fathom level, east of the engine-shaft, the lode is 2 feet wide, with very good stones of tin; in the 18 fathom level, west of angine-shaft, the lode is 3 feet wide, and just as iast reported. The engine-shaft is now 6 fms. 4 feet below the 18 fm. level—lode from 8 to 10 in. wide, with good stones of tin. In the 10 fm. level, east of the engine-shaft, we have a good course of tin; over this level we have a first-rate tribute pitch. On the whole, the mine is looking very promising.

WHEAL CREBOR.—The 12 fm. level, west of Cock shaft, has intersected the cross-course, and we are now driving south on the western wall to intersect the lode, which is thought to be heaved a few feet. The lode up to the point of intersection is 2 ft. wide, composed of caples, mundic, peach, and a little ore. In the 20 cross-cut, south of Gill's shaft, two branches have been met with, but are not of sufficient importance to drive on. The rise in the back of the 54 is communicated with the 40; the lode for the first 8 fms. is a good course of ore, and the upper part, though less preductive, is kindly, composed of caples, mundic, and stones of good-quality ore. The 54 is resumed driving and advanced 6 fms. west of the rise; the lode throughout this extent is 5 ft. wide, composed of caple, quartz, mundic, peach, prina, and ore, and worth from 8 to 12 t. per fm. The lode in the present end is less productive, being disordered by a small cross-course, it is still kindly, containing peach, quartz, mundic, preach, and back grey, and yellow ore. The 40 has been driven through the cross-course, and the lode again met with on the western wall theroof; and although at present poor, is exceedingly kindly, containing caple, gossan, quartz, mundic, paear provers.

blu's rise, no lode has yet been met with.

— April 2.—At our setting-day, on Saturday, the following bargains were taken:—
The 54 end, west of cross course, at Rundle's, by six men, at 3l. 5s. per fm., for 3 fms. stent. The 40, west of cross-course, at Rundle's, by six men, at 3l. 5s. per fm., for 3 fms. stent. The 12 end, on the south lode, at Cock's, by one man and one boy, at 3l. 15s.; this end is driving under the cross-course, to cut the lode west of the same. The lodes in the ends look well. In the tribute department, a new pitch above the 54, west of the cross-course, at Rundle's, at 5s. in 1l., by two men and two boys; the lode is worth about 13l. per fm. A pitch in the back of the 40, east of cross-course, at Rundle's, at 12s. 6d, in 1l., this pitch will, by present appearances, turn out a great quantity of ore, but is very troublesome to get into good working order; the gunnles being upwards of 30 feet wide, and the stuff sunk to a great depth below, we are obliged to give a much higher tribute for it. During the last few dry days we have been enabled to make good progress in our dressing.

tribute for it. During the last lew dry days we have been changed to make good grugess in our dressing.

WHEAL DORA.—Our shears are in their place. We have set the wheel-pit to the shaftmen to excavate, who are doing so with all possible speed. The sawyers are busy cutting timber for the arms, buckets, &c., of the wheel. The axle and castings are on the ground, as also the pulleys and rods, and we shall commence fixing the same innediately. There will be no time lost in erecting the engine and putting it to work, and recommence sinking the engine shaft. We are busy covering in the smith's shop. We have completed our costeaning from north to south through the set, and have discovered and opened on seven splendid iedes, including the two caunter copper lodes, three east and west copper lodes and two tin lodes of the most promising character. I believe the north copper lode in this mine to be the continuation west of the Phocus one, in the adjoining parish, and which is at this time so immensely rich. The two tin lodes are the continuance of those in the well-known Old Stow's Tin Mine, in the parish of Linking-horne, and which has returned abundance of the Marke Valley lodes.

WHEAL GOLDEN CONSOLS.—At Thorne's shaft, in the 77 fathorn level

horne, and which has returned abundance of the Marke Valley lodes.

WHEAL GOLDEN CONSOLS.—At Thorne's shaft, in the 77 fathom level north, the ground is good; the lode is small and poor at present, but we expect an improvement will take place in this level soon, as we shall, by driving a few fathoms, get under the orey ground gone down in the 70 fm. level; in the 77 fathom level south the ground is moderate; the lode is 18 in. wide, producing 18 cwts. of ore per fm., with indications of further improvements; in the stopes in the back of the 77 fm. level south the ground is good; the lode is 2 ft. wide, producing 1 ton of ore per fm., in the stopes in the back of the 77 fm. level north the ground is good; the lode is 1 ft. wide, producing 4 cwts. of ore per fm. The wines sinking under the 60 fm. level, south of the cross-out, the ground is moderate; the lode is 2 ft. wide, producing 4 cwts. of ore per fathom. At Webb's shaft, the 60 fm. level south is suspended for the want of air, until the rise in the back is communicated with the 50 fm. level with the 50 fm. level with the 50 fm. level shafting under the 60 fm. level the ground is moderate; the lode is 2 ft. wide, producing 4 ft. wide, producing 5 ft. wide, producing 4 ft. wide, producing 6 ft. wide, producing 5 ft. wide, producing 4 ft. wide, producing 5 ft. wide, producing 6 ft. level the ground is moderate; the lode is 2 ft. wide, producing 6 ft. wide,

realising 9931. 15s.

WHEAL HAMLYN.—The end on the caunter lode is very kindly. We have more water than last week, which indicates that we are near the cast and west lode. Last Monday Capt. Carpenter inspected this mine for some gentiemen, and was not a little surprised to see five such promising lodes, and especially when he saw the great the surprised to see five such promising lodes, and especially when he saw the great the surprised to greens, so he had a wind and the proceeding from it, together with the abundance of greens, see, such as he never saw in any mine previously.

caunter lode, while it is 30 ft. wide, with so much lead proceeding from it, together with the abundance of greens, &c., such as he never saw in any mine previously.

WHEAL LANGMAID.—I have great pleasure in meeting you on this occasion, our prospects being of such a promising character, and I feel satisfied that before our next meeting I shall be able, from present appearances, to show you a good pile of work at surface. Since my last report we have south 3 fms. in the shaft, and are now down 26 fms. The cross-cut is driven east 7 fms. 3 ft., where we cut the lode, and have driven north on its course about 5 fms., the character of which, you will perceive from specimens produced to you, will be found to be flookan and spar, strongly impregnated with cubes of lead, and I do with confidence assure you that the hopes before entertained have every appearance of being fully realised.

WHEAL MARY ANN (LYDFORD).—The lode in the deep adit level, driving west, is 4 ft. wide, composed of spar, capel, prian, peach, mundle, killas, and good stones of ore. At times we are very sanguine with regard to the result of our operations here, as, from the general appearance of the lodes, it is considered by all hands it will be a good lasting mine. A new sett, taken to the east of us, commences on the last of April by a strong party. Price per fm. for driving on the copper lode, 4L los. The new north lode presents a ever favourable appearance. We have, by your consent, commenced a cross-cut, which will take the lode in about 15 fms. driving, and will show about 14 fms. back: should this prove to expectation, a deep level can be brought up, which will be at least 40 fms. from surface; this level is set to drive at 25s. per fm. On the whole, our prospects are highly favourable.

WHEAL MAY.—The following are the latest reports from Capt. Carpenter:

WHEAL MAY,-The following are the latest reports from Capt. Carpenter: March 22.—The lode in the engine-shaft is 2 feet wide, composed of spar, white and very fine stones of grey and yellow copper ore, similar to the specimens Mr. Rock with him, when at the mine on Thursday last. The engine is working remarvell, and keeping the shaft quite clear of water, so as the men are constantly at March 26.—The lode in the engine-shaft still improves in size and quality, and

well, and keeping the staff quite clear of water, so as the men are constantly at world March 26.—The lode in the engine-shaft still improves in size and quality, and from the present appearances, every foot of ground that is sunk confirms my former opinion, as well as of all the practical mining agents that have inspected the mine.

Morch 28.—The lode in the engine-shaft is improved very much for the better. We are ratsing some splendid stones of copper and silver ore in the bottom of the shaft. I have ind a sample assayed this morning—produce 140 ozs. in the ton for silver. I cannot ascertain the value of copper by this post; but you shall hear from me by Monday's post, as I think I shall go underground to-morrow, and set the shaft to sink by the fathom, till the end of April month; then I hope we shall be in a position to drive east and west on the lode, and sink the shaft in the meantime.

March 29.—I hereby enclose you the sample ticket, which I have received from Mr. Jenkin, showing everything is correct, according to my former statement. The engine-shaft is now 5 ms. 3 feet under the adit; the lode is 3 feet wide, producing very good stones of ore, just the same quality I had assayed on Friday last. I hope, when we get down in more settled ground, we shall be able to raise large quantities, as the quality is good enough.—"Assay: Wheal May samples, 28th March, produce 20½ per cent. copper, and 140 ozs. fine silver to ton of ore.—Jonn L. Jerrin."

WHEAL PENHALE.—The ground in the 40 fm. level end south continues favourable; and the lode in this end Is improving as we approach towards the cammer. We have commenced operations this week in the north end of the 40 fm. level; and, the cutting east a few feet, have cut a side branch about 9 in. wide—very good indeed for copper, with occasional stones of lead; it is rather more than probable that we shall have here a very good iriduely over a very confined to a very congenial character for lead; and these can now be no doubt but that it will be found here in good

WHEAL RUSSELL.—The lode in the cross-cut in the 48 fm. level, that

WHEAL RUSSELL.—The lode in the cross-cut in the 48 fm. level, that we commenced driving east on last week, has considerably improved, it being now full 34 ft. blg, turning out 14 ton of ore per fm.; this lode is very likely to be the great north 10de referred to in former reports. An improvement has also taken place in the end driving east on the first lode met with in the 48 cross-cut, being 1 ft. wide, producing excellent atoms of ore. In driving north on the cross-course in the 48 fm. level, to the west of the engine-shaft, a rich leader of copper ore is still following on with the cross-course in the 48 fm. level, to the west of the engine-shaft, a rich leader of copper ore is still following on with the cross-course, which looks well for the lode on the opposite side. There is still a large lode, full 7 ft. wide, in the 37 fm. level, driving west from the engine-shaft, producing saving work; the water issuing from the present end is very powerful. No lode has been mot within driving north on the cross-course in the 37 fm. level, to the east of the engine-shaft, since lead report. The great lode in the south part of the sett continues to produce good stones of ore. The pitches are much the same as when last reported. The sampling will take places at the appointed time, upwards of 45 tons.

WHEAL TREMAYNE.—In the boundary engine-shaft sinking under the 33 fm. level, the producing well, they are now worth 50. per fm.; in the 63, east of boundary, on the engine lode, the lode is 1 foot wide, worth 11. per fm.; in the 63 fm. level, worth 11. per fm.; in the 63 fm. level, west of Allan's shaft, on the same branches, the branches are worth 12. per fm.; in Allan's shaft, shaking under the 53 fm. level, east of Allan's shaft, on Allan's branch, are still engaged atoping in the 53 fm. level, on Allan's branch, are still engaged atoping in the 53 fm. level, on the engine lode, to heave down water. At Madron's shaft, on the south lode, in the 53 fm. level, east of wide, worth 62, per fm. In the 20 fm. level, driving e

It has for some time past.

WHEAL UNY—The engine-shaft is now cased down and completed to the adit level; the whim-shaft is likewise completed. The difficulties experienced in clearing out the adit level are entirely surmounted, and it is expected in about a fortnight the adit will be entirely cleared up to the encline-shaft. We expect to purchase a 50-inet cylinder steam-engine, but if the negociations fail, a new one will be contracted for immediately. I have also to report that arrangements have been made with the tenant and proprietor to take the account house and outbuildings at a small rental, by which arrangement the adventurers will save a considerable sum of money. There is a little mine on the run of Wheal Uny lode, adjoining us, where they are raising very large quantities of tin, without a steam-engine or machinery. Once get our engine, and the water forked from the mine, and there is little doubt of our raising large quantities of ore.

WHEAL VINCEYE—Since last report there is not much alteration in our

WHEAL VINCENT.—Since last report there is not much alteration in our cet end; the lode is about 15 in. wide, producing good work for tin, and the ground by. We are getting on faster with our new engine-shaft since we have had easier ground.

#### FOREIGN MINES.

LINARES MINES.-The following has been received from Mr. H. Thomas: Linares, March 22.—There is a considerable improvement in the 55 m. level driving east of San Anton winze, the lode being at present worth from 4 to 5 tons per fm.; this end is now just under the stopes west of La Manca winze, from whence it has let down the water, so as to render it necessary to put an additional small lift of pumps (4 inch) in San Anton. There will be about 7 fathoms more to reach the Tanteo, the deepest point reached by the old men, and also one of the richest. The water is not yet drained from this winze, but this may be soon expected. In the 55 fm. level driving west the lode is now worth 35 tons in a fm. Our progress is rather slow in securing the workings in the 81 fm. level cost. The lode in the bottom of this level, working on tribute, in advance of the 45 fm. clevel, each of Shaw's shaft, the lode is worth 2 tons in a fm. Our progress is rather slow in securing the workings in the 81 fm. level cost. The lode in the bottom of this level, working on tribute, in advance of the 45 fm sunder the 45 to four Englishmen, at 1500 reals per fm. Shaw's shaft is without any alteration. The clearing west of San Juan shaft, at the 17 and 45 fm. levels, is still proceeding. The tribute pitches continue without much alteration.

Weighed in this week (March 22), 29 tons.—Total in stock, 789 tons 17 ewts.

ROYAL SANTIAGO MINES .- [ Received March 81.]

ROYAL SANTIAGO MINES.—[Received March 31.]

Cobre, Feb. 24.—Perscerancia.—Thompson's shaft is developed 7 fms. 3 ft. below the
22; the lode and branches are from 4 to 5 ft. wide, yielding 4 tons per fm.—strata soft
greenstone, and easy to explore. West from shaft, in the 22, lode not quite so promising,
it is from 2 to 3 ft. wide, yielding 3 tons per fm. In the winze and stopes between the
22 and 32 fm. levels we have encountered some heavy ground to the south, arising from
the shattered state of the strata; this has rather impoded operations. East from shaft,
in the 22, the lode and branches are from 7 to 8 ft. wide, in a disordered state, yielding
3 tons per fm. A communication is made with the winze below the 10. The lode and
branches in the winze between the 22 and 32 are from 6 to 7 ft. wide, yielding 5 tons per
fm. The lode in the stopes in the back of the 22 is as last reported. West from shaft,
in the 10, the lode is improved, and the indications more favourable than hitherto. The
cross-cut east from shaft, between shallow and deep adit levels. Goldsmid's shaft is sunk
2 fms. below San David's adit, strata favourable, and casy to explore.

San Joaquin.—Taylor's shaft; shown 93 fms. below deep adit; the lode is 1½ to 2 feet
wide, yielding stones of ore, but not worth saving; the indications are favourable—strata
compact and hard; the waier continues to impede operations. There is no alteration in the cross-cut east from shaft, in deep adit level south, and for the present it is suspended, and the men placed to excavate east on the lode, in the same level, in order to effect a
communication with the where sinking below shallow adit. West from shaft, in shallow
adit, the lode is promising. In the winze sinking west from shallow to deep adit, the lode
is 6 ft. wide, composed of gossan and iron pyrites, interspersed with particles of grey and
black oxide, but not worth saving—strata, dark greenstone, disseminated with alex.

Angelia.—East from eross-cut, at adit, there is a communication effected with the wi

developed below shallow adit.

Tresince.—The lode in the winze west from shaft, sinking between 43 and 54 fm. levels is 3 to 4 ft. wide, yielding 4 tons of ore per fm.

Our reason for suspending some of the operations has been from want of native miners, or negroes, none of which are to be had.

The cholera has unfortunately made its appearance at Holguin, but from the precantions taken by the authorities at St. Jago, and the company's sigents, in causing good ventilation to be made in the various miners' dwellings, &c., no danger is apprehended to the property of the company, or its labourers.

At DRVON CONSOLS NORTH the appearances are most satisfactory. Mr. Jehu Hitchins states that eight men are at work on the backs of the lodes, and stones of yellow copper ore are taken up near the surface. The applications for shares are overwhelmning, and not one fourth of the number sought for can be supplied.

From SPEARNE CONSOLS, dated the 2d inst., they report a good course of tin in the 116 fm. level end, going east.

GRATIFYING TRIBUTE TO A MINE AGENT.—Capt. Pill has received through the hands of Edward Way, Esq., a handsome large silver box and a purse, containing 100 goineas. The box has the following inscription:—"Presented by the adventurers of Perran St. George Mines, with 100 goineas, to Capt. Pill, of Perranzabuloe, in the county of Cornwall, as a token of their esteem for his integrity, ability, and perseverance as their agent, during a period of 17 years, 1851." These mines are a proof of what may be done by perseverance and practical ability; and this tribute to Capt. Pill has heen justly deserved.

practical ability; and this tribute to Capt. Pill has heen justly deserved.

Boilth Explosions.—During the inquest at Manchester, a good deal of dissatisfaction prevailed as to the supposed insufficiency in point of strength of many of the boilers recently constructed in the neighbourhood. It is a very general plan to give orders for boilers upon estimates which have previously been sength, and a practical man says that he has seen boilers constructed at 11s. 6d. to 12s. per cwt., which could not possibly be made of the proper iron for the purpose at less than 15s. or 16s. per cwt. It was stated that the plates could not be bought at less than 11s., and for the extra 6d. per cwt. the boiler was undertaken to be made, and carted a distance which would probably cost the maker 5l. or 6f. In these cases the temptation was to buy plates at 5s. or 6e., and these plates had been known to be of such inferior metal that they would not bend with the ordinary process of rolling.

## MINING IN SOUTH AMERICA.

MINING IN SOUTH AMERICA.

In the present scarcity of silver, the following extract from an article in the Valparaise Mercantile Reporter, relative to the yield of the South American mines, may not be uninteresting:—

In the mining district of Tres Puntas 74 mines were being worked at the commencement of the past year, giving employment to 581 persons. The quantity of ores extracted was, in January, 554 cargas (mule loads of 12 arrobas). In December the number of mines in work was 55, several having been abandoned; but these were affording employment to 629 men, and produced 985 cargas of ores. In Chanarcillo, the most important mineral district, the year opened with 75 mines, employing 1094 men, and produced in the first month 5598 quintals of ores. The returns for the last month give 115 mines in work, 1587 men, and a product of 9559 quintals. The district of San Antonio is the only one which shows a falling off, having produced 757 quintals at the beginning of the year, and only 408 at its close.

The article from which we quote gives us a further statement of the number of mines in that province; they are in all 587, of which 400 are silver mines, 42 produce copper, 10 gold. cobalt, and quicksilver, and five are coal mines. This statement affords a fair idea of the proportion in which these metals are to be found in this province, so far as it has already been explored. We have also an abstract of imports and exports. The amount imported of produce of the country is queted at \$557,708, and of foreign products 56,244 packages, value not mentioned. The exports appear to have been as follows:—587,019 marks of bar aliver; six marks of gold; 55,225 quintals bar copper; 25,818 quintals copper ores; 5299 quintals silver ores.

## ACCIDENTS.

Eridgend—Jenkin Reca was killed at the Tondu Iron-Works by a fall of roof,
Northyr.—T. Jones was killed by falling in the Taibach Pit, at the Plymouth Works.
Dadleys.—S. Edwards, a butty collier, at Ekssell's Hall Colliery, was killed by the breakg of the rope while descending the shaft.
Wednergied:—James Ball was killed by being struck by the fiv-wheel of the engine at

the being struck by the fly-wheel of the engine a

#### OUR EXPORT TRADE IN IRON

DEPEAT OF THE AMERICAN PROTECTIONISTS CONSTRUED INTO VICTORY BY THE PRESIDENT OF THE BRITISH BOARD OF TRADE.

He (Mr. Labouchere) had seen in the newspapers an account of the proceedings to high the hon. gentleman's (Mr. Booker's) question referred; and he had no reason to out the correctness of that statement!!!—(Mr. Labouchere's speech, see Times' report,

Admitting that in some departments of the British iron trade a much more healthy tone prevails now than some months ago, still no one can affirm that its condition is so vigorous as to render it proof not only against the actual effects of existing high duties abroad, but against the sinister influence of false alarms and mistakes, relating to the enhancement of foreign tariffs. It was, therefore, with no less regret than surprise that people read in the morning journals of last Friday the above statement from the lips of the President of the Board of Trade, who, at any rate, might be presumed to be in possession of his subject, whatever latitude is accorded to his questioner, who seems to have been misled by some Protectionist friend, or else by the Standard, in whose columns we first observed the erroneous conclusion that a higher tariff had passed Congress on the 25th February last.

We repeat, that it is no marvel to find the hon. Member for Herefordshire quoting the organ that is ever and anon engaged in sounding his trumpet. We all know that "love begets love;" and experience tells us, too, that "Un sot trouve tonjours un plus sot qui tadmire." On a converse principle, the Standard echoes the wisdom of Protectionist speakers, and they again re-echo the Standard; but, for our own parts, we must confess that ever since the astute journal in question alleged, with all the naïveté imaginable, in the summer of 1841, that "England would be as great and powerful, and all useful Englishnen would be as rich as they are, though one common ruin should engulf all the manufacturing towns, and districts of Great Britain," we have not felt inclined to repose an unquestioning faith in either its statements or inferences upon commercial matters. Allowing this to pass, however, let us inquire—Is it either reputable or justifiable in a free-trade Minister to lend, even for one moment, or through ignorance of what was patent to every Amercian merchant in the city, the colour of his authority to the Protectionist mare'snest, discovered or propounded in the House by the new Member for Here-We repeat, that it is no marvel to find the hon. Member for Herefordchant in the city, the colour of his authority to the Protectionist mare'snest, discovered or propounded in the House by the new Member for Herefordshire? If it be so, then in future it will be competent to any Protectionist wiseacre to rise in his place in Parliament and ejaculate with
impunity any unfounded assertion which his imagination may suggest, or
of which "the wish may be father to the thought." We must declare the
old canon—"Indee damnatur cum nocens absolvitur"—to be an arbitrary
one, if Mr. Labouchere is to be held innocent for endorsing, when he should
have contradicted, the erroneous statement of Mr. Booker regarding the
position of the tariff question before Congress.

Now for the facts of the case; and we challenge contradiction when we
aver that the United States' tariff of 1846 remains intact; and that all efforts to levy increased duties, per se, on foreign imports last session proved
miserably abortive in the House of Representatives. We could a tale unfold regarding the trickery, the intrigue, and the unscrupulous means resorted to by the Protectionist minority in America to bring about such
an unnutural consummation as is represented to have taken place; but we
forbear, since it suffices for our purpose to learn with infinite satisfaction

an unnatural consummation as is represented to have taken place; but we forbear, since it suffices for our purpose to learn with infinite satisfaction that, through the efforts made to enlighten the public mind, the great principle has been recognised and asserted by the intelligence of our trans-Atlantic cousins, that "protection" means, in the aphoristic language of Col. Thompson, only "robbing somebody else."

Happily, the only witnesses that need be called, to show that no alteration has taken place in the American duties, are those maintaining Protectionist opinions. What, then, do we find them asserting, in relation to the results of the attempts of last session, to smuggle a high tariff through Congress? Why, on the 25th February—the very day, be it observed, on which, according to Mr. Booker, a majority of 127 to 54 carried the increased tariff—the Washington correspondent of the New York Courier, a daily Protectionist print, writing from the heart and seat of the strife, thus expresses himself: thus expresses himself:-

thus expresses nimsell:—

Washington, Feb. 25.—There was an attempt to renew the proposition to modify the tariff; but I regret to say it failed, as all previous efforts had done. Mr. Grinnell moved Mr. Hunter's bill for the Prevention of Frauds, intending, if it was carried, to tack on the modification of the tariff to which the manufacturing interests had agreed; but the chairman decided it to be out of order, and was sustained on a division by a majority of five. Mr. Stevens, of Pennsylvania, introduced a tariff of his own, that soon met with a similar fate. Mr. Grinnell presented the Walker tariff scheme, and was met at the start with the adverse judgment of the Chair. He did not deem it necessary to ask for tellers in face of five defeats.

Then, again, the same journal on the same day, in a leader, thus confirms and deplores, in its own absurd way (risum teneatis), the statement of its reporter in Congress:-

The sins of omission have been innumerable. First and foremost among these is the neglect to modify the tariff, so as to make the duties on imports specific, intead of ad valorem. The consequences of this neglect will be another year of excessive importation; the closing of the few blast-furnaces still in existence. \* Meantime, British Iron, and manufactures of every description, will continue to flood the country. The country asked not for prohibition, but for competition, it asked not even an increase of existing duties, but sought merely prohibition against the the pauper labour of Europe, &c.; but this reasonable request has been refused by the loco-foco opposition.

but this reasonable request has been refused by the loco-foco opposition.

Can any thing further be required to make good our demonstration that both parties were wrong in giving it forth, to the detriment of British iron and coal interests, last week, that America had increased her already high duty of 30 per cent. on these commodities? Surely the above is sufficiently damning proof to satisfy all, except the parties who are bent on upholding a commercial policy that must prove suicidal.

If more evidence of what has been advanced be asked for, we may here refer to a letter, from Gen. Bayly, chairman of Committee on Ways and Means, pointing out how (high tariff projects failing) efforts were being made to warp and strain another measure, having another object (we allude to Mr. Hunter's bill), into meaning more protection. In addressing the Richmond Enquirer, this gentleman says—

The article from the Times is full of errors, as is so much of your article as is based.

the Richmond Enquirer, this gentleman says—

The article from the Times is full of errors, as is so much of your article as is based upon its statements, and those in which you say the northern papers agree. I have not time to correct them in detail, which I regret, as I find the law makes no change whatever in the tariff of 1846, as construed and administered from the period of its enactment down to the late decision of the Supreme Court, by Mr. Polk's, General Taylor's, and the present administration. As you correctly remark in the first paragraph of your article, "the bill ratifles and enacts the Treasury circulars, and re-establishes" the tariff of '46, as understood by its framers. It meets the acceptance of the Supreme Court, which put a construction upon the tariff of '46 is conflict with the construction which has prevailed at the Treasury. It does that, and it does no more, except to authorise the appointment of appraisers at large. The appointment of them was necessary to produce that uniformity in the duties levied in the several ports which is required by the Constitution."

The contraverse we still varges in America, as to the overgived provisions of

The controversy still rages in America, as to the practical working of The controversy still riggs in America, as to the practical working of this measure; but it appears clear that levying duty on freight—the rates of which, of course, vary in the several ports—is unconstitutional; for the 8th section of the 1st article of the Constitution of the United States provides that "all duties, imposts, and excises, shall be uniform throughout the United States." Presuming the appraisement of duty, then, to include vides that "all daties, imposts, and excises, shall be uniform throughout the United States." Presuming the appraisement of duty, then, to include the freight, in addition to the cost, duty must fluctuate with the rates of freight, which from this country are double or treble to California what they are to New York—hence a uniform duty would be impossible. But all speculation upon this question will be speedily set at rest by a decison in the American courts of law, as will be seen from the following observations in elucidation of this subject, which appear in a letter, dated Boston, March 18th, published in the Manchester Guardia of Wednesday last, than which nothing can be more to the point in hand: re to the point in h

last, than which nothing can be more to the point in hand:—

I am induced to recur to the subject of the new Appraisement Bill, which has undergone considerable discussion in our commercial circles since the sailing of the Europa, by the perusal of the following extract from a Washington letter, which appeared in the Philadelphia Bulletin, one of the Pensylvania organs of the Administration:—"The chief question raised is, whether duties under this Bill are to be charged upon freight. The words so clearly imply that the valuation includes 'all costs and charges' up to the period of appraisement, that none but interested parties and their connsel could have ever dreamed of any other interpetation. I do not suppose that Mr Corwen has a doubt about this being the true construction; indeed, while the bill was pending, I knew this oplinion was entertained in the department, and I cannot believe it has undergone any change." Be it so; but let me examine the practical effect of such interpretation upon the manufacturing interests of the United States. It will be recollected that, at the commencement of the lade congressional session, President Fillmore and Mr. Corwen laid down the following axiom in the annual message:—" It is also important that an unfortunate provision in the present tariff, which imposes a much higher duty upon the raw material that enters ulso our manufactures than upon the manufactured article, should be remedied." The construction, adding the freight, then, to the cost of raw materials, would be in direct opposition to the axiom enunciated by the President last December, because the freight charges on the import value of manufactured goods and raw materials are not at an equal ratio. They are universally so, rather than otherwise, and would be manufactured are equal ratio. They are universally so, rather than otherwise, and would materially to the cost of such articles as raw silk, hemp, wool, hides, sugar, molasses, mahogany, rags, saltpetre, dyewoods, dyestuffs, indigo, linseed, copper, it, the

tional impost as to their present duties, and the tariff of 1851 is a less restrictive one upon Yorkshire goods than that of 1846—in fact, the construction would be ruinous to nearly every manufacturing interest in the United States, except the manufacturers of the lower description of iron and the coalowners; the additional tax on foreign coal would, of course, benefit the latter. The protectionists of this neighboarhood are well migh unanimously opposed to adding freights to importations. I may say that, in the event of Mr. Corwen issuing his treasury circular to the collectors of the various ports, instructing them to include freight as costs and charges, an extensive firm engaged in the manufacture of locomotives in this city, and who use large quantities of Low Moor Iron, will pay the duty under protest on their first importation, and test the question in the next Massachaestic Circuit Court. I may also state that we have precedent against the above interpretation of the Appraisement Bill, freights being excluded from valuation under all previous tariffs. I have carefully perused the speech of Mr. Huuter, the chairman of the Senate Committee of Finance, and there is nothing in it warranting the assumption that any other change was intended to be made than the valuation of the goods at the time of shipment, instead of at the time of purchase, the latter mode of valuation being admitted by far more open to the commission of fraud than the former one.

#### LATEST CURRENT PRICES OF METALS. LONDON, APRIL 4, 1851.

ENGLISH IBON. a per ton. Bar, bolt, & square, London . £5 5 0-5 10 Nail rods 6 2 6-6 15	Tile
Hoops	South American, in bond
Terms.—a, 6 months, or $2\frac{1}{2}$ per cent. dis.; is.; e, 6 months, or $2\frac{1}{2}$ per cent. dis.; f, ditt, 6 months, or 3 p. ct. dis.; m, net cash; n, Cold-blast, free on board in Wales.	b, ditto; c, ditto; d, 6 months, or 3 per cf. to; g, ditto; h, ditto; i, ditto; k, net cash; 3 months, or 14 p. c. dis c, ditto 14 dis

WELSH BAR-IRON is in moderate demand; but as the inquiry for railway iron is consilerable, makers are firm in prices.

STAFFORDSHIRE IRON is less in request, without alteration in prices.

SCOTOR FIG.-IRON has advanced during the week from 6d, to is, per ton. A large business has been done, but the operations have been mostly confined to Glasgow; the vrices may be considered low, as compared with the rates ruling in 1844, when the iron-rade was so depressed. Bar-iron was at that period 3l. 18s., and Scotch pigs 1l. 19s. and 2l.; whereas the prices are now respectively 4l. 17s. 6d. and 2l. 1s.

SWEDISH IRON.—A very large amount of trade has been doing in steel iron, on Shef-leid account, for early slipment from Gothenburg and Stockholm.

COPPER is in excellent domand.

YELLOW MERTAL SHEATHING is in steady request.

COPPER is in excellent demand.
YELLOW MEALS SHEATHING is in steady request.
BRITISH TIN has submitted to a reduction of 41, per ton; a further decline is concluded not improbable.
FOREIGN TIN, owing to the reduction in English, is quite nominal; a large parcel was ressed on the market in the early part of the week, but has been withdrawn.
SPELTER.—On Saturday last, 500 tons for early shipment from Stettin at 151, 58, hanged hands; the holders of the principal part of the present stock were the purchasers, ince which, another 100 tons has found a buyer at the same price.
LEAD continues firm in prices, and in demand.
TIN-PLATES.—The makers are full of orders, but the dealers are disposed to submit reuction; and charcoal plates may be purchased on easier terms.

GLASGOW, APAIL 2.—The shipments of pig-iron during the month of March have been very large, amounting to 45,000 tons; and as the accounts from the United States are very favourable for pig-iron, the shipments will likely continue on a large scale. The low prices have attracted attention to the article, and during the last week a very large business has been done at higher prices. The market closes firmly at 41s. and 41s. 3d. per ton cash for mixed Nos., good brands, immediate shipment. Store warrants, free on board here, are again worth 6d. per ton more than iron for shipment.

MONTHLY REPORT.—The local consumption at foundries and malleable-works is greater than at any former period, averaging about 22,000 tons a month. The shipments and local consumption for the last three months are 40,000 tons more than for the corresponding period of last year. The prices are—
No. 1 Gartsherrie, free on-board here ... £2 2 6 cash against shipment.

	Att. I dartenerine, mee on board nere	20.2	2	0 6	asn agamsi	smpment.
	Mixed Nos., good brands	2	1	0	**	99
	Ditto ditto at ports in the Forth		3	0		**
	Ditto, inferior brands, at ports in Ayrshire	2	0	0	. **	. 99
The	demand for maileable iron continues good,	wit	hout	any	change in 1	price :
	Common bars, Mankland or Dundyvan	£5	10	04	per cent.	liscount.
	Ditto, Govan or Glasgow	5	15	0	,	23
	Nail rods			0	**	99
	Sheets and plates	7	15	0	**	**

From the Board of Trade returns issued on Thursday, we extract the following detailed account of the quantities of metals of home produce and manufacture exported from the United Kingdom during the month ending 5th March last, as compared with previous periods:—

Metals.	1849.		1850.		1851.
Iron-Pig tons	9182	** ** **	68. 9		10125
Bar, bolt, and rod	23034		29608		29263
Wire	200		310		420
Cast					
Wrought of all sorts					
Steel-Unwrought					
Copper in bricks and pigs	3662		14790		12416
Sheets, nails, &c. (including mixed or yellow metal for sheathing)	5818		18829		13997
Wrought of other sorts	1062		1093		3282
Brass of all sorts					1677
Leadtons	1023		1211		1480
Tin , unwrought					
Tin-plotos malue 45	6 395		64 822	CI.	000 600

	Metals.			1849.		1850.		1851.	
Copper, u	nwrought and	part wrought	cwts.	1602		290		3546	
Iron, in b	ars, unwrough	t	tons	352		316		183	
								10	
Lead, pig	and sheet		. ,	150		121		116	
Spelter .				241		55		16	
Tin, in bl	ocks, ingots, be	ars, or slabs	cwis.	202		-		525	
Quicksilve	er		lbs.	176,6	05	149,81	73	4,066	
The featu	man in this m	otuen ovo the	inavaasa	ina	nnan	and	the or	ntinna	à

falling off in quicksilver.

The returns of imports are as under:-				4	
Metals.	1849.		1850.		185
Copper ore and regulus	2831		2479	*****	339
Copper, unwrought and part wrought cwis.	6483		2597		425
Iron, in bars, unwroughttons					
Steel, unwrought	27	*****	4		- 3
Lead, pig and sheet	224		1286		443
Spelter	215	*****	38 1		96
Tin, in blocks, ingots, bars, or slabs cuts.	1093		2464		212
Quicksilver lbs.	50200		64211		-

Copper ore, it will be seen, has been imported more largely, whilst the introduction of the article in the unwrought or partially wrought state has diminished. This view is also borne out by the returns for the two months of the present year, and has been noticed by us before. Spelter shows a progressive increase. The lst of January this year. sive increase. There has been no import of quicksilver since

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con chains work in I dur went ture T sme W ores, T of I do

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8734/. 11747 ing the per mon At W Mr. J. J 244*l*. 7s. cost, inc. 1243*l*. 10

At Es quarterly sundries, against th

At Wh 85/. 13s. 1 At a m

## Current Drices of Stocks, Shares, & Metals.

Mines.—There have again this week been some fluctuations in the value of dividend shares, but they are, generally, of the upward character, and considerable eagerness has been exhibited to possess certain shares, in consequence of great improvements in the respective lodes. We have also to notice that the accounts from both the eastern district (including Devon) and the western portions of Cornwall are gratifying, as showing the advantages attending the continuous application of capital and mining skill, where the ground is of an unquestionably congenial character for the production of ores, thus encouraging to unlimited perseverance. It is useless, we fear, to remark on the new schemes continuing to be absorbed by the influence of the Stock Exchange, at ten times beyond their real value, including the heavy premiums obtained, but a cure for such evils must come sooner or later, when expectant dividends will probably be answered by demands for additional capital.

In the Metal Market, a fall of 4l, per ton has taken place in English Tin, and a consequent decline in Foreign, with very little business.—Lead has a good consumptive domand.—Copper very brisk, and steady in price.—In Tin Plates, the quantity offering for sale being large, and principally in second hands, prices are easier: the demand, however, continues extensive.

The returns of the sales of copper ore by public ticketing in Cornwall

cipally in second hands, prices are easier: the demand, however, continues extensive.

The returns of the sales of copper ore by public ticketing in Cornwall for the three months ended 31st March, show the amount to be 36,860 tons of ore, producing 2897 tons of fine copper, and with an average price of 5t. 4s. 4d. on a produce of 7:859 per cent., realising the sum of 192,274t. 11s. 4d., being a decrease both on the previous quarter and on the corresponding one of 1850. The sales at Swansea also show a considerable decrease on the previous quarter; they amounted to 8898 tons, and, at an average price of 12t. 7s. 1d. per ton, realised 109,946t. 12s. 6d., being a decrease of 245 tons, and 4158t. 15s. in money. For the full particulars, as also for those of lead and tin, we refer to the returns themselves, in another column will be found the list of dividends declared during the month of March, amounting to 32,954t. 10s., showing a considerable increase. This is very satisfactory, and we invite attention to it, as well as that of calls during the same period. These calls, we may remark, in many instances, are for the express purpose of erecting steam and other machinery for giving the mines a speedy and fair trial. We trust they may prove successful, and enable us to add to our list of dividend-paying mines at no distant period. In the shares of such mines, as we have before remarked, considerable transactions have taken place, and in most at advanced rates. The tone of the market is decidedly healthy, and the payment of quarterly dividends at the Bank next week will render money easier, doubtless bringing a portion to operate in the mining share market. All we need do is to caution parties from embarking in any new scheme of doubtful character: we feel assured that they will then find that legitimate mining offers equally as fair and safe a chance of remuneration as any other of a speculative nature.

We regret to observe a tendency to convert the mineral wealth of Ire-

doubtful character: we feel assured that they will then and that legammue mining offers equally as fair and safe a chance of remuneration as any other of a speculative nature.

We regret to observe a tendency to convert the mineral wealth of Ireland into a source of wild speculation, rather than that sober and steady exploration which its importance deserves, and which there is every reason to believe would prove eminently prosperous. A prospectus has just been issued by an embryo company for the working of a mineral estate in one of the south-western counties, and from many years' acquaintance with the property, and the results which followed the working by a former company, we have no hesitation in saying the large capital proposed to be raised is preposterous, and on a system which we have before deprecated as inconsistent with legitimate mining. It is currently rumoured that the soid disant Railway King is inclining to mining speculation, and that this scheme is under his patronage and influence. We trust that fate will not attend his followers in the present instance which, under his auspices in railway matters, so many have had awful reason to lament.

We understand, from our correspondent, "Argus," of Truro, that it is confidently asserted in the mining district that a negociation for the purchase of the United Mines, in Gwennap, has been concluded, through the instrumentality of Mr. F. Pryor. This will ensure the continuance of the workings at Great Consols, and the other mines alluded to by "Argus" in his three communications upon that subject, published in our columns during the last five weeks, and thus far prove that his early conjectures were correct on this important matter.

Among the arrivals at Swansea have been 2070 tons of copper ore from

were correct on this important matter.

Among the arrivals at Swansea have been 2070 tons of copper ore from Cuba; 120 tons of copper ore, 217 tons of regulus, and 69 tons manufactured (cake) copper, from Valparaiso.

The Roughtengill Lead Mine (Cumberland) has delivered to the smelting-works 58 tons 4 cwts. of ore.

Wheal Golden Consols sold, on the 26th March, 75 tons of silver-lead cytes at 127 for per ton realising 1992/155.

Wheal Golden Consols sold, on the 25th March, 75 tons of silver-lead ores, at 13t. 5s. per ton, realising 993t. 15s.

The Foxdule Mines (Isle of Man) sold 90 tons of lead ore, at 12t. 13s. The Lisburne Mines sold at Aberystwith, on the 31st March, 100 tons of lead ore, at 12t. 0s. 6d. (1202t. 10s.), and 80 tons at 11t. 8s. (912t.): total, 2114t. 10s.

Rhoswyddol Mine sold 6 tons of silver-lead ore, at 10t. 18s. 6d. per ton.

Dyfngwm sold 16 tons of silver-lead ore, at 10t. 18s. 6d. per ton.

Chimspaper sold 40 tons of silver-lead ore, at 10t. 3s. 6d. per ton.

Dyfngwm sold 16 tons of silver-lead ore, at 10'. 18s. 6d. per ton. Cairnsmore sold 40 tons of silver-lead ore, at 11'. 3s. 6d. per ton. A great improvement has taken place in Exmoor Wheal Eliza. From the Alport Mines some indications of improvement are reported in two or three of the works of trial—a sink on the New Year's Gift vein, the 8 fm. level on the Milking-place vein, and the 5 fm. level on Amos Cross vein. About 30 tons of lead ore have been sampled.

In Camborne Consols we learn there is an improvement in the 10 fm. level east and 20 fm. level west, in Mr. Pendarves' ground.

At the Callington Mines the rise in the back of the 70 fathom level, on Kelly Bray's lode, will turn out 5 tons of copper ore per fm.

Mr. Percival Johnson having had a large stone from the discovery in the 84 fm. level at Great Polgooth, reports:—"I consider the whole, rough as it is, would give about 15 to 20 per cent. of white tin, which is good enough, and a more congenial matrix for tin I have seldom seen. The tin in the stone also appears a very superior quality for mine tin. I contin in the stone also appears a very superior quality for mine tin. I congratulate those interested."

and the stone also appears a very superior quanty for mine and gratulate those interested."

An advance in the price of Alfred Consols within the last few days from 16½ to 17t. 10s. and 18t buyers, at Hull and elsewhere, has caused sellers to be sly—price now asking is 19t., owing to the cheering prospects they already have in the 80 fm. level. This advance has had the effect of sending on West Alfred from 20t. to 23t., the price now named by the seller. Higher figures are asked for Tremaynes.

In our last we alluded to some differences that had sprung up amongst the Wheal Tremar adventurers, but which, we are happy to say, are now completely adjusted; and, under the guidance of the able committee appointed at the general meeting, there is no doubt the development of this mine will proceed with vigour and economy, and, that the cost-book will be strictly adhered to in recording the monthly expenditure, and in laying the accounts before the adventurers every two months.

be strictly adhered to in recording the monthly expenditure, and in laying the accounts before the adventurers every two months.

At Wheal Basset meeting, on Tuesday, the accounts showed—Copper ore sold, Jan. and Feb., 5548l. 13s. 10d.; tin ore, 886l. 2s. 4d. (less dues, 1-15th, 428l. 19s. 9d.) = 6005l. 16s. 5d.— Labour cost for January and February, 2191l. 7s.; merchants' bills, 754l. 12s. 3d.: leaves a profit of 3149l. 17s. 2d.; add balance in hand, at last account, 584l. 16s. 6d. = 8734l. 13s. 8d.: deduct dividend 10l. per share (2560l.), leaves the sum of 1174l. 13s. 8d. to next account. Resolutions were entered into for working the south ground forthwith, and that tenders for a 36-in. cylinder en gine be obtained immediately. John Reed was appointed underground agent at 7l. 7s. per month, and Capt. James Juliff's salary increased to 8l.

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agent at 7l. 7s. per month, and Capt. James Juliff's salary increased to 8l. per month.

At Wheal Golden Consols meeting, at Barnstaple on the 28th March, Mr. J. D. Young (the purser) produced the accounts, showing—Balance at last meeting (after deducting the dividend of 1000l, paid in January), 244l. 7s. 5d., a ores sold since, 1995l. 1s. 5d.—2239l. 8s. 10d.—Monthly cost, including dues, 995l. 18s. 3d.: leaving balance in favour of company, 1243l. 10s. 7d. A second dividend of 1000l., or 5s. per share was declared. At East Crowndale Mine, after cutting through the cross-course and divan in the 50 fm. level, they have discovered a good bunch of tin, 3 ft. wide, and no south wall seen as yet. At the meeting, on Tuesday, the quarterly accounts to end Feb. were submitted, showing—Balance from last account, 962l. 14s. 11s.; mine cost and merchants' bills, 707l. 6s. 9d.; sundries, 74l. 6s. 5d.—1744l. 8s. 1d.—By call, 1000l.: leaving balance against the mine, 744l. 8s. 1d. A call of 15s. per share was made.

At Wheal Langmaid meeting, on the 26th March, the accounts showed a balance in favour of the mine of 66l. 9s. 11d.; due on calls, 19l. 4s.—85l. 13s. 11d. A call of 2s. per share was made.

At a meeting of Wheal Oak (Wendron), on the Sth March, a call of 5s. per share was made, to further prosecute the second state.

At United Mines meeting, held 29th March, the accounts showed—Balance from last account, 7344. 4s. 4d.; labour cost for Jan., 23251. 14s. 11d.; ditto February, 38631. 2s. 6d.—69231. 1s. 9d.—By ore money (after dues), 51091. 2s. 5d.; tin ore, 311l. 8s. 5d.; lead ore, 25l. 17s. 1d.—5446l. 7s. 11d.: leaves balance against mine, 1476l. 13s. 10d.; the loss on the two months being 742l. 9s. 6d.

being 7421. 9s. 6d.

At the Chyprase Consols monthly meeting, at Birmingham, on Wednesday, Capt. James Michell's report was deemed fully satisfactory of the prospects of the mine, which has also been confirmed by the statements of Mr. Henry Parrish, who has just returned from an inspection, to which he was dispatched by the committee at the last monthly meeting. The accounts were audited and paid.

counts were audited and paid.

At the South Dolcoath meeting, on the 25th March, reports were read from Capts. J. Puckey, Peter Floyd, and John Richards, who had been deputed to examine the mine: they state the levels westward generally to be poor, and recommend the driving east, which they consider the most desirable part of the sett, it being more immediately south of Carn Breahill, in a parallel direction between South Frances and Carn Brea Mines. The materials are estimated worth 1050/. The liabilities were found to be 1050/1. The state of the property of the first property of the control of the property of the first property of the property

hill, in a parallel direction between South Frances and Carn Brea Mines. The materials are estimated worth 1050l. The liabilities were found to be 2623l. 10s. 6d.; therefore, a call of 1l. per share was made, payable forthwith. Those shareholders in arrear of the call made 28th April are to be applied to for immediate payment, or the usual course will be taken for enforcing the same. The operations of the mine are limited to an expenditure of 80l. per month, until the next meeting.

At the Weston Lead Mines two-monthly meeting, on Tuesday, the accounts were examined and passed, showing—Balance last account, 10l.; calls, 97l. 10s. = 107l. 10s.—Mine cost, &c., 102l. 7s. 10d.: leaving balance in hand, 5l. 2s. 2d. The liabilities to the end of April were estimated at 206l. 7s. 7d.; to meet which there is the above balance, 5l. 2s. 2d.; arrears of calls, 118l.; call of 5s. made at the meeting, 175l.; which would leave balance in favour of adventurers of 91l. 14s. 7d. for next account. Mr. Adam Murray, jun.. was appointed inspector of the mines.

At West Wheal Seton meeting, on Monday, the accounts for Jan. and Feb. showed—Mine cost for Jan., 360l. 1s.; Feb., 236l. 11s. 6d.; merchants' bills, 179l. 10s. 2d.=776l. 2s. 8d.—By copper ore sold, Dec. 12 (less 1 15th dues), 546l. 6s. 1d.; overcharged on whim drawing, 11s. 2d.: leaves balance against the mine, 229l. 5s. 5d.; to which add balance last account, 200l. 16s. 10d.=430l. 2s. 3d. A call of 2l. per share was made, which will amount to 400l., reducing the debt to 30l. 2s. 3d.

At Wheal Neptune meeting, on the 26th March, the accounts showed—Labour cost for five months ending February, 502l. 4s.; merchants' bills, 416l. 2s.; new 36-in. cylinder steam-engine, 700l.—1618l. 6s. 10d.—By balance in hand end of Sept., 283l. 15s. 7d.; calls made, 28th Oct., 512l.: leaves balance against mine, 822l. 11s. 3d.—A call of 1l. per 1024th share was made.

At Tavy Consols meeting, at Stonehouse on Tuesday last, the accounts

was made.

At Tavy Consols meeting, at Stonehouse on Tuesday lust, the accounts showed—Balance from last account, 125l. 4s. 9d.; labour cost for Jan., 164l. 9s. 4d.; Feb., 154l. 2s. 8d.; sundry bills, 34l. 13s. = 478l. 9s. 9d.—By ores sold, Dec., 87l. 5s. 1d.; Jan., 199l. 4s. 5d.; Feb., 99l. 19s.; leaving balance against the mine, 92l. 1s. 3d. The liabilities amount to 420l., and estimated assets, in ore, &c., sampled, 190l. A call of 10s. per share was made. The report of Capt. Goss states that he expects shortly to cut the lode in the 56 fm. level, and that he has commenced a cross-cut north in the 24. In the tribute department four pitches are working at an average.

made. The report of Capt. Goss states that he expects shortly to cut the lode in the 56 fm. level, and that he has commenced a cross cut north in the 24. In the tribute department four pitches are working, at an average tribute of 10s. 9d. in 1/s. and 4s. per ton for the mundic.

At the Treloweth Mine meeting, on Tuesday, the accounts showed—Balance from last account, 962l. 14s. 11d.; call, 7th January, 1000l.=

1962l. 14s. 11d.—Labour cost, Dec., 112l. 16s. 10d.; Jan., 142l. 12s. 4d.; Feb., 101l. 8s. 6d.; merchants' bills, 350l. 9s. 1d.; mine leases, 36l. 15d.; office rent and salaries to end Feb., 30l.; stationery, &c., 7l. 11s. 5d.; leaving balance to next account, 744l. 8s. 1d. A call of 15s. was made.

At Wheal Trebarvah meeting, the accounts showed—Labour cost for five months ending Jan., 181l. 12s. 5d.; buildings and agency, 234l. 13s. 9d.; merchants' bills, 277l. 10s. 7d.; new steam-engine, 630l.=1323l. 16s. 9d. (less call, 512l.); leaving balance to next account, 811l. 16s. 9d.

At the Bryn-Arian adjourned meeting, on Monday, the purser tendered his resignation, which was accepted, and Mr. J. A. Joseph appointed, with an allowance of 5l. 5s. per month for office expenses and salary. All shares upon which calls remained unpaid were forfeited, and in future, instead of certificates of shares, letters of registration, containing the rules and regulations of the company are to be issued. The Commercial Bank of London was appointed the company's bankers, in lieu of the North and South Wales Banking Company. The agent's stated that 20 tons of ore would be ready for sale in a week; and a detailed report from Captain J. Prince was read, which was very satisfactory, it stating that from the quantity of ground opened, the efficient machinery erected, and the indication of mineral deposits, the most beneficial results might be anticipated.

In Foreign Mines, transactions have taken place in Cobre, Santiago, Conigne United Mayeson Livines and St. Jaha del Pow with a slight.

In Foreign Mines, transactions have taken place in Cobre, Santiago, Copiapo, United Mexican, Linares, and St. John del Rey, with a slight advance in price.

The advices from Linares state that a considerable improvement has taken place in the 55, east of San Anton winze, the lode being worth 4 to 5 tons per fm. There were about 7 fms. to reach the deepest point, and the richest of the old men's workings in La Manca winze. The lode in the bottom of the 45, east of Shaw's, working on tribute, is worth 6 tons per The ore in stock was 789 tons 17 cwts.

From the Santiago report it appears the workings in Perseverancia were not quite so promising as at last report; some heavy ground had been encountered in the stopes, from the shattered character of the strata, and which had impeded operations. At San Joaquin, Taylor's shaft was down 9½ fins. below the deep adit, the indications favourable. The cholera had broken out at Holguin, but every precaution had been taken, and but little fear was entertained for the result.

The imports into the port of London of minerals, ores, and metals, in

the fortnight ending 27th March, were

the fortnight ending 27th March,
20 cases boracic acid from Leghorn
812 bags alum from Bombay
80 tons sulphur from Ostend
175 tons ditto from Girgenti
315 box ditto from Girgenti
30 boxes vermillion from Bombay
1 box diamonds from Bahia
3 parcels ditto from ditto
196 casks plumbago from Colombo
166 kegs ditto from ditto
196 casks ditto from ditto
91 casks ditto from ditto
92 casks ditto from ditto
930 boxes ditto from ditto
75 clests zinc from Ghent
8 casks ditto from ditto
175 barrels zinc nails from ditto
190 plates zinc from Stettin
335 plates ditto from Stettin
335 plates ditto from Hamburgh
The imports into the port of Liv 1800 cwts. copper ore from New Zealand
15 cwts. copper sheathing from Cape of
Good Hope
24 cwts. old copper from Hobart
1600 bars lead from Cartagena
400 cwts. lead ore from Swille
800 slabs tin from Boston
2413 slabs ditto from Singapore
1973 bars fron from Gothenburg
100 tons pig-tron from Shanghae
24 bundles steel from Melbourne
61 cases mercury from Trieste
23 ounces gold dust from Melbourne
29 packages ditto from Hobart
2 packages ditto from Hobart
2 packages ditto from Sierra Leone
6 boxes ditto from Hobart
1 case ospecie from ditto
1 case ditto from Calcutta

The imports into the port of Liverpool of ores and metals, in the week ending 1st of April, were—

tons copper regulus from Valparaiso
tons ditto ditto from Coquimbo
bags mixed ores from Valparaiso
150 bags mixed is from Mitto
150 brls. chromate of from N. York

HULL, THURSDAY.—Messrs. T. W. Flint and Co. state that the market has been rather animated throughout the week, with a demand for several stocks—Tremaynes, West Providence, Alfreds, West Alfreds, and Gustavus, would find ready buyers. There is also a demand for West Tolgus, Devon and Courtenay, Herodsfoot, and others. In Wellingtons several transactions, prices lower—Trefusis neglected—Bedford United steady. Altogether

## MINING APPOINTMENTS DURING THE WEEK.

5. Pay at Devonf Consols, Botallack, Trannack and Bosence, Perran St. George, Par Consols, Dolcoath, Stray Park, and West Jawel.

7. Treslusack account.

9. Perran St. George, United, and other mines sampling.

10. Ticketing at Redruth—Carn Brea and other mines.

11. Stray Park account, on the mine; North Pool setting; West Caradon and Gonal.

12. Pay at East Crofty, Cook's Kitchen, West Treasury, Alfred Consols, United Mines,

14. Wheal Seton account, on the mine.

IMPROVED COAL DROP.—An improvement on the ordinary coal drop, rendering that piece of mechanism of much greater efficiency, has been carried into effect by Mr. Clark, resident engineer to the Earl of Durham, at Bunker's Hill, Fence Houses. The cradle for lowering the coal waggons to a level with the ships' decks is suspended to the longest limb of the suspension levers in the usual manner—the shorter limb forming a box, containing weights, by which, on releasing the coals, the empty waggon is raised to the requisite altitude for taking a fresh load. The improvement introduced by Mr. Clark consists of a series of oak or metal cribs, securely bolted to each frame of the lever, forming a circular rim—upon which a double iron brake is made to operate through the agency of levers, as in the ordinary application of such apparatus to inclines, wheels, &c., by which arrangement increased strength and steadiness is obtained, and greater power and control secured over the mechanism.

#### SILVER-LEAD ORE

Mines. Wheal Golden		Tons.	Price per Tin.	Purchasers.
Wheal Golden	***********	75	£13 5 0	
	Ticketing	at Bagillt,	on the 2d of April.	
Machynlleth	*****	. 22	£12 2 0	Walker, Parker, & Co.
East Shallee		. 211	. 18 16 0	Newton, Kentes, & Co.
Ditto		. 164	. 15 7 6	Walker, Parker, & Co.
West Shalles		. 54	. 16 1 0	J. P. Eyton.
Rhoswyddol		. 6	. 10 8 0	Walker, Parker, & Co.
Dyfngwm				
Cairnsmore		. 40	. 11 3 6	Ditto.

#### LEAD ORES

Min	e.								7	bn	18.			P	ric	e pe	r 2	bi	u.	Purchasers. Walker, Parker, & Co.
roxunie .		 	 	0 0				0 1		90				. 4	12	13	U	,		Walker, Parker, & Co.
					Se	Md	a	! !	he.	M	ine	,	038	the	4/	h o	1	pı	il.	
Driggith		 	 0.0						. 1	12		١,		£	12	15	0			
ditto																				terminana .

#### COPPER ORES. Sampled March 12, and Sold at Swansea, April 1, 1851.

Mines.	Tons.	Prod.	Price.	Mines.	Tons.	Prod.	Price.
Cobre	. 75	244 £18	5 6	Berehaven	77	10₹ £	8 1 0
ditto	. 66	244 18	2 6	Knockmahon	. 126	7	4 18 6
ditto	. 62	2417			104	7	4 18 6
ditto	. 58	242 18	10 6	ditto	101	84	
ditto	. 57	234 17	13 6		79		
ditto	. 56	244 19	1 0	ditto	. 26	9	6 12 6
ditto	. 55	241 18			24		
ditto	. 50	244 18	2 0	Kapunda	58	324 2	4 11 6
ditto				ditto	47	314 2	4 0 0
ditto				ditto	38	374 9	7 9 6
ditto	. 107	17 12	11 0	ditto	29	294 2	2 17 6
ditto	. 96	164 12	14 0	Waterloo Slag	60	44	8 0 0
ditto	. 93	172 12	18 0	ditto	25	44	2 14 0
Berehaven				Aberdovey	35	8#	5 11 6
ditto				Tigrony			
ditto				Cronebane			
ditto							
		TOT	AL P	RODUCE.			

Cobre	896	 £14358	18	0	Waterloo Slag	85	 £247	10	0
Berehaven	510	 4109	11	6	Abordovey	35	 195	2	6
Knockmahon			0	0	Tigrony	3	 76	11	26
Kapunda	172	 4260			Cronebane		78	1	0

#### COMPANIES BY WHOM THE ORES WERE PURCHASED.

									Tons.		Am			
English Copper Company		 					٠.	* 0	244	 	 £3162			
Freeman and Co										 	 448	1	0	
Grenfell and Sons		 				 ٠			282		 3251	17	6	
Sims, Willyams, and Co	٠.	 	٠.			 			403	 	 6440	6	0	
Vivian and Sons		 					٠.		364	 	 . 3683	9	6	
Williams, Foster, and Co		 				 ٠			697	 	 6983	9	0	
Mines Royal		 				 ۰	٠.		73	 	 . 555	17	6	
Schneider and Co		 		٠.	٠.			••	43		 . 1274	4	6	
Total									0164		205 700	10	-	

Copper ores for Sale April 22.—Cuba, 458; Knockmahou, 365; Santiago, 356; Spanish 118; Burra Burra, 113; Chili, 20.—Total, 1430 tons (21-cwts.)

#### AVERAGES.

Produce.	Price.	Sta	ndard
British 9	. £ 6 11 0	£97	8 0
Foreign 23\\\	. 17 8 6	84	10 (
-	-	-	
Sale 16	£11 18 6	£88.	3 6
Totals-British, 1096; Foreign	1068 = 216	tons (21 cwts.)	

## AVERAGES OF LAST SALE. Produce. Price. Standard British. ↑ 10 3-16 £ 7 13 0 £96 19 0 Foreign 26 20 7 6 84 19 0

Sale ..... 241 £18 12 0 Totals -British 142; Foreign, 866 = 1008 tons (21-cwts.)

#### COPPER ORES.

Sampled March 19, and Sold at White's Hotel, Pool, April 3.

Mines.	Tons.		Pric		Mines.	Tons.			Pric	
North Pool		£	3 18	6	East Pool			٤١	15	1
ditto	95		4 8	0	ditto	25		1	4	-
ditto	92		3 0	6	ditto	24		1	9	
ditto	76		7 0	0	East Wh. Crofty	103		4	18	-
ditto	73		1 12	0	ditto	84		4	6	1
ditto	71		7 0	0	ditto	62		4	8	-
ditto	63		7 12	0	ditto	56		4	12	-
ditto	37		2 4	0	ditto	39		2	4	1
Tincroft	69		8 6	6	ditto	38		0	16	-
ditto	66		1 8	0	ditto	36	****	ı	6	-
ditto	63		1 18	0	ditto	15		0	18	-
ditto	62		5 1	6	ditto	5		0	12	(
ditto	61		3 15	0	Dudnance	17		4	10	-
ditto	59		18	6	ditto	12		3	16	-
ditto	57		18	6	Camborne Vean	63		4	2	-
ditto	53	5	6	6	ditto	61		3	10	-
ditto	51	:	3 4	6	ditto	38		3	16	-
ditto	42	(	15	0	ditto	25		2	0	-
Wheal Basset	96	!	18	0	Wheal Francis	75		3	0	- (
ditto	90	2	10	6	ditto	45		4	6	-
ditto	86	5	16	0	Condurrow	95		4	16	-
ditto	76	!	5	0	ditto	70		7	3	•
ditto	71	5	6	6	ditto	57		7	15	(
ditto	59	(	3 2	0	ditto	52		2	2	-
ditto	43	18	0	0	ditto	30		1	15	-
ditto	40	10	0	0	Fowey Consols	104		6	10	(
Wheal Seton	105	!	12	6	ditto	96		5	12	-
ditto	74	4	10	6	ditto	62		2	2	-
ditto	63	4	18	0	South Wh. Frances	60		6	10	-
ditto	61	4	0	6	ditto	55		6	10	6
ditto	49	5		0	ditto	47		6	2	-
ditto	48	5		0	ditto	20		8	3	-
ditto	38	5		0	Dolcoath	64		2	12	(
ditto	23	3	9	0	ditto	50		4	8	(
Pendarves		3		0	ditto	30		01	14	i
East Pool		1		6	North Roskear			6	0	ò
ditto	C) 46	2		0	ditto	62		6	2	è
ditto	m - a	2		0	West FoweyConsole			5	16	6
ditto	40.4	4		6	Pendarves Consols			A	2	0
ditto	47		3	6	- citati i ca Colladia	0				

## TOTAL PRODUCE.

North Pool	607	£	2794	16	6	Camborne Vean }	307	** **	£1087	8	0
Wheal Basset	563		3188	8	6	Condurrow	304		1561	14	0
Wheal Seton }	502		2175	15	0	Fowey Consols South Wh. Frances	262 182		1346	15	0
East Pool	477		1330	3	0	Dolcoath	144		707	8	ŏ
						North Roskear West Fowey Cons.	128 59	****		13	6

 Average Standard
 £104 14
 0 | Average Produce
 62

 Average Price per ton
 £4
 8 6

 Quantity of Ore
 4628 tons | Quantity of Fine Copper, 315 tons 19 cwts.

 Amount of Money
 £20,352 17
 0

LAST SALE.—Average Standard.....£101 1 0.—Average Produce... Standard of corresponding sale last month, 1031. 3s.—Produce, 74.

## COMPANIES BY WHOM THE ORES WERE PURCHASED. Vivian and Sons 745 Freeman and Co. 582 Greenfell and Sons 762 Crown Copper Co. 28 Sims, Willyams, and Co. 996 Williams, Foster, and Co. 1137 Schneider and Co. 343 Mason and Elkington 221 2850 6 6 2794 12 3 3356 5 0 121 2 0 2725 1 6 5188 0 3 1378 15 0 967 12 6

Total tons..... 4628 £ 20,352 17 0

Copper ores for sale on Thursday next, at Andrew's Hotel, Redruth.—Mines and Par sels.—Carn Brea 626—Tywarnlayle 594—Wheal Buller 372—Alfred Consols 273—Pa Consols 273—Levant 148—Polberro Mine 141—West Wheal Tressury 192—West Wheal seton 99—Wellington Mines 90—Wheal Unity Consols 72—Wheal Agar 66—Hawk's Pol-th—West Wheal Providence 31—South Wheal Speed 26—Wheal Friendship 13—Friendly Mines 5—East Crinnis 2.—Total quantity of ore to be sold, 2983 tons.

Sinus of —Eass Crimis 2.—Fotal quantity of ore to be sold, 2983 tons.

Copper ores for sale on Thursday week, at Andrews Hotel, Redruth.—Mines and Parceels.—Devon Great Consols, Wheal Josiah, Wheal Maria, Whoal Fanny, and Whoal Anna Maria, 1517—Marke Valley 315—West Caradon 295—Fovey Consols 261—Holmbush 225—Wheal Friendship 295—Bedford United 140—Pheauk Mines 138—Wheal Busy 47—Wheal Gorland 20.—Total, 3163 tons (21-ewts.)

PARTICULARS OF COPPER ORES SOLD IN CORNWALL IN THE QUARTER ENDING MARCH 31, 1851.

Copper ores, 36,960 tons (21 cwts.)—Fine copper, 2897 tons 4 cwts. 3 qrs. 7 lbs.—mount of money, 192,2744. 1ls. 6d.—Averagefproduce, 72—Average stat durf, 1014. 7s. Average price per ton, 5.4 4s. 6d.

#### NOTICES TO CORRESPONDENTS.

OLLIEST OPERATIONS.—Size: I should feel obliged if any of your correspondents would favour me with some information on the following subject:—In a colliery where about 30 yards face of coal has been lost in level, it is proposed to head into the dip 70 yards, and continue the pipes to the end of the heading, and so win a face of coal of 160 yds. The dip is in 7, which would give a fall of 30 ft., up which it is presumed the water would rise. I wish to know whether it is prasticable?—J. H.: Derby, March 31. COLLIERY OPERA

would rise. I wish to know mether it is practicable "-3.11. Derry, March 31.

\*\*MECTRO-MACNETISM as A MOTIVE-POWES.—In the description of Mr. Hjorth's magnetic engine, in last week's Journal, for "fauy-way rod" read "four-way cock principle." It should also have been more explicitly stated that the electric fluid moves constantly in one direction round the piston and each of the poles; upon which principle, and the alternate breakage of magnetic contact, the reversion of the motion depends.

The illustrated description of Mr. Little's improvements in electro-telegraphic instruments will be given in our next Journal.

16. L." (Stafford).—The algas from the reaster are of a light specific ouritz, black, and

"G. L." (Stafford).—The slags from the roaster are of a light specific quartz, black very porous; they are in general reduced along with the slags from the refinery is metal farnace.

The letter of "One Done" can only appear with the writer's name attached.

F.S." (Brighton).—The Quenangen Mining Company have not yet declared a divide From the last reports it will be seen that the works are in an improving condition, likely to prove remunerative to the adventurers.

"W. B." (Camborne).—Our quotation of the price of Wheal Carpenter shares last week was more than you state. We refer you to the list of to-day—both prices were furnished by a respectable broker.

by a respectable broker.

"A Shareholder" (Camberwell).—The dispute between the contractors and the Great Central Gas Consamers' Company is not yet arranged, but is still under arbitration, and most probably some considerable time will clapse before it is finally settled.

"A. M." (Leith) had better apply to some smelting firm at Swansea, as we have no means of obtaining information on such purely local matters, forming also minute details of a difficult and somplex branch of business.

"J. P." (Learnington).—A letter address to the agent of the late Llandudno Minis Company, Ormo's Head, North Wales, will be attended to.

Company, Orme's Head, North Waies, will be attended to.

"A. McD." (Manchester).—We are not aware of any manufacturer of sulphate of zinc:
information could be easily obtained from some of the large dry-salting houses of Liv
pool, or of Messrs. Brandram Brothers and Co., 17, Sise-lane, Bucklersbury, Lond
The Telegraph Company must produce considerable quantities in working their batter
but we have not heard whether, as yet, it is sufficiently large in quantity to ind
them to make it an article of commerce. It is remarkably pure.

6. B. C." (Liverpool).—We noticed the account of the discovery of gold in black sand in California. We believe, on examination, this will prove to be a mineral commonly called Menaccite, or Iserine, which is nothing more than titaniferous iron, and which has the appearance of glistening yellow grains embedded in black sand.

has the appearance or gistening yellow grains embodied in black said.

APPLICATION OF ANTHRACITE TO LOCOMOTIVE AND MARINE ENGINES.—Sir: As the introduction of anthracite for use in locomotive and marine engines would be of great benefit to the anthracite district, perhaps some of your correspondents would kindly state under what conditions that fuel is used in America—whether there is any peculiarity in the bolicts—to what cases the fan-blast is applied—whether American anthracite is different from Welsh, &c.—Carnost.

Mr. Adam Murray, Jun., is now on a tour of inspection of mines tu Cornwall and Devon and has arranged to be at the following localities on the dates named:—April 7th and 8th, Penzanec; 9th, Hayle and Copper House; 10th, Redruth; 11th and 12th, St Austell, Charlestown; 14th, Bodmin; 15th, Five Lanes, Wheals Vincent, and Sarah 16th, ditto; 17th, Lamherooc; 18th, Woodman's Well, Lydford; 19th, Ashburton; 20th and 21st, Hennock, Exeter; 22d, London.

20th and 21st, Hennock, Exercy 22st, London.

"N. E."—The postage on the Mining Journal, when forwarded to the city of Galen
Hilmols, North America, is one penny weekly.

"A. R." (Bristol).—Replies to the advertisement must be forwarded as stated: papplications will not be attended to.

applications will not be attended to.

"5. W. S." (Ettingshall).—As lime of commerce is generally produced from the carbonate, either in the shape of mountain limestone, liss limestone, chalk, or other varieties, according to the locality, we were not aware that sulphur formed any portfor of its constituents. If gypsum, or sulphate of lime, was used for its production, a considerable portion would most probably remain in the lime after calcination.

siderable portion would most probably remain in the line after calcination.

Holmbush Mink.— Errada.—In Capl. Prince's report, in last week's Journal, there are several errors:—Line 9 from the top: read—whilst the main lode is underlaying from the fiap-jack lode is underlaying fowards the shaft. Line 13: read—and the water issuing from it contains copper, yet, &c. Lines 19, 20: read—no intermediate level having been driven above, the ground is nearly whole to the surface. Line 34: 76 productive, read unproductive. Line 37: for draining, read\_drawing. Line 54, for

one, read it.

A notice of Mr. Dick's invention for making steel and gas in the same ime appeared in the Journal on the 1st March.

Mr. David Mushet, on "Colliery Accidents—Life Assurance;" Mr. N. Ennor, on "Volcanic Mountains, and the Origin of Stream Tin;" Mr. R. Symons, "Glances at the Gloomy State of the Gwennap Mines;" Mr. T. A. Readwin, on "Anonymous Correspondence on Mining Inspection," shall appear in next week's Journal.

We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses—not that their communications should, consequently, be noticed, but as an earnest to us of their good faith.

\* It is particularly requested that all communications may be addressed-TO THE EDITOR.

Mining Journal Office,

26, FLEET-STREET, LONDON.

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprietors

## THE MINING JOURNAL

Railway and Commercial Sagette.

LONDON, APRIL 5, 1851.

The MINING JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Tweive, of all news agents, at the Royal Exchange, and other parts of London.

In the MINING JOURNAL of the 15th March, we called the attention of our readers to a bill which had been introduced into the House of Commons "For Facilitating the Settlement of the Affairs of the Governor and Company of Copper Miners in England, and for the better Management of the said Company." To-day a meeting of shareholders will take place, pursuant to annual custom, to elect a Governor, Deputy-Governor, and Court of Assistants, for the forthcoming year. It may be remembered that, two years since, at the annual meeting for 1849, at the London Tavern, a committee of shareholders was appointed, in order to take such steps as might be considered expedient to rescue the company from its then pressing difficulties, and to report on the necessary measures for its resuscitation and amendment. One of the members appointed on the committee (Mr. Alderman Carden) at that period made the the committee (Mr. Alderman Carden) at that period made the trite observation that he had been on several committees previously, and he expected that this would end as all others had done—in "smoke." Previous, however, to entering into any further detail, it may not be inapposite here to give some brief account of the previous proceedings of the company. First to the reign of William and Mark there existed two large associations, entitled the "Mineral and Battery Works" and the "Mines Royal Company," which had been previously incorporated by QUEEN ELIZABETH. These have been since amalgamated, and now exist under the latter denomination, and are known as a body honour-sible from their amignity, though but limited in their operations. On the exist under the latter denomination, and are known as a body honourable from their antiquity, though but limited in their operations. On the 3d of Angust, 1691, the associations with which it is now our province to deal with were incorporated, and certain rules and regulations were then laid down for their government. On the 9th Feb., 1711, QUEEN ANNE was further pleased to gram Letters Patent, confirming their privileges, and allowing certain alterations to be made in the mode of electing the officers of the company. In the year 1725 we read of their getting into difficulties, and being obliged to create new stock, in order to free themselves from certain liabilities, and enable them to prosecute their undertaking, in conformity with the spirit of the Charter. In the year 1841 the joint-stock consisted of 7600 shares, of the nominal amount of 13t each. taking, in conformity with the spirit of the Charter. In the year 1841 the joint-stock consisted of 7600 shares, of the nominal amount of 13l. each. In that year the Court of Assistants resolved on the issue of 2400 new shares—the amount of these and the old shares being represented by the sum of 328,835l. stock. In 1846 a large sum of money was raised by the company by the issue of preferential shares of 25l. each, the holders being entitled each half-year to a preference dividend at the rate of 37s. 6d. per annum on each share paid up, or rateably according to the instalment before the payment of any dividend to the stockholders. The amount raised by these shares was represented by the sum of 281,300l., making the joint-stock of the company 610,135l. From time to time subsequently, the Governor and Company found themselves forced to borrow money on debentures or loan notes, and inclusive of the two sums of 150,000l. debentures, held by the Bank of England, and 115,000l, by other creditors, their debts amount to the sum of 613,225l. Subsequently, under certain conditions, the Bank advanced further sums, on receiving a lien on the property of the company; and it is a notorious fact that, for some time past, they have been the de facto proprietors of the establishments. It would be unnecessary here to detail the negociations which took place, as they are well known to all concerned, and it would far exceed our present limits to attempt to enter into any longthened narrative on the subject. It is sufficient to say that considerable dissatisfaction existed among a large and influential body of the shareholders. Proceedings in the Court of

Chancery were commenced;—to the complex difficulties of the company litigation was superadded. At the meeting held in April, 1849, angry recriminations took place, which only tended mutually to embitter the conflicting interests. A Sharcholders Committee was then appointed, with a view to adopt such means as they considered necessary to resuscitate the company. The task was one of no ordinary difficulty, and, to our thinking, one of the most thankless that could be imagined. In the July of company. In the task was one of no ordinary amening, and, to our timesing, one of the most thankless that could be imagined. In the July of that year, Messrs. Shuttleworth and Sons were directed by the mortgagees to dispose of the property at the Auction Mart, but no bid being offered; the sale was withdrawn. The like attempt was made in the corresponding period of the year 1850, and met with the same result.

During this period, the Shareholders, Committee were not idle: meetings were held with the debenture holders, negociations were carried on with the several parties interested, and at the compencement of the session of

During this period, the Shareholders Committee were not idle: meetings were held with the debenture holders, negociations were carried on with the several parties interested, and at the commencement of the session of 1850 a bill was brought into Parliament. This, after being read a second time, was committed, and the five gentlemen forming the committee, not considering the preamble proved, threw it out. As, according to the rule of the House of Commons, no reason need be assigned by the committee for their judgment, the Shareholders' Committee were left in the dark as to where they had failed in proving their case. The consequence was, that the whole labours of a year were thrown away. At the commencement of the present year an extraordinary meeting was called: the result was that some fresh blood was infused into the committee, and a determination that an amended bill should be brought into Parliament, and with this it is our present purpose to deal. The amended bill proposes that the Letters Patent should be confirmed, and that on it the Companies' Clauses Consolidation Act of 1845 should, to a certain extent, be incorporated. A meeting of debenture holders and creditors is to be called, after the election of the officers of the company. Provisions are made for certain debts, which are recited in full in the body of the bill. It is then proposed that every debenture holder who holds debentures to the amount of 500l, shall receive stock to the amount of 250l, the preference shareholders of the like amount 125l, and the old stockholders only the sum of 62l, 10s, or only one-eighth of their original amount. Further, shareholders of the like amount 1254, and the old stockholders only the sum of 621. 10s., or only one-eighth of their original amount. Further, the Court of Assistants are allowed, on their own responsibility, to borrow 200,0001, and a further sum of 100,0004, to be fixed by any general or extraordinary meeting of the company—such new proprietors to be entitled to preference over the other stockholders. These are, however, to to be offered to the debenture holders and creditors, thereby increasing their liabilities. We do not wish to enter further into the legal details of their liabilities. We do not wish to enter further into the legal details of the proposed Act, but on the primâ facie appearance; it seems to us to be a "creditors' bill," and nothing more. We leave our readers to draw their own conclusions from these pregnant facts. The company, at this present own concusions from these pregnant facts. The company, at this present time, according to their own showing, are in a state of insolvency. The old stockholders may be satisfied that they have not lost all, and, perforce, may be contented that they receive one-eighth of their original stock; but it is different with the preference shareholders, debenture holders, and other creditors, who, by this bill, will be forced to become partners in a bank-

ript concern.

It will be, at the same time, a great injustice on many of the stock-holders, who probably are annuitants who have invested their all in this notders, who probably are annutants who have invested their all in this company, and now by a sweeping enactment find their property so fear-fully reduced. The debenture holders, and other creditors, see that there is fresh provision for other preference shares, which are to be paid before they can receive one farthing of dividend; and the probability is that the company in another seven years will be in a similar position again, and may have recourse to the same means to free themselves from their liabilities. ities. Much as we should deplore the total decadence of the Company of Copper Miners in England, we think it would be a small evil, in comparison with the unwarrantable precedent which would be established if their proposed bill was allowed to pass into law. If such should be the case, what should prevent certain railroads in the cast and in the north, which we is like very size of the cast and in the north, which are in like position, from applying to Parliament for some such enactment to discharge their liabilities, and force their creditors to become partners on their non-paying and insolvent lines? The bill has been read actment to discharge their habilities, and force their creations to become partners on their non-paying and insolvent lines? The bill has been read a second time and passed; it has still the ordeal of the committee to go through. We trust that, without favour or affection, they will do their duty. Should it pass unscathed through the Commons, we confidently hope that the Lords will not allow so manifest an injustice to be done to the parties most interested—the debenture holders and creditors. In fact, it can only be characterised,—and we must be allowed to coin a word—see it can only be characterised-and we must be allowed to coin a word-a at can only be characterised—and we must be allowed to coin a word—as a semi-repudiation. The evil must be firmly grappled with. The passing of such an enactment will be a precedent for others of a like nature, and, involving a far greater stake, will inflict a fatal blow on all credit, and be a lasting disgrace to the first commercial city of the globe, which has been justly designated the emporium of the world. It may be urged that the difficulties of the company are such that no other remedy will aid them to escape from the difficulties and dangers which beset them. Their property is of such value that, if they do not work it, others parties, as soon as clear and legal titles can be found, will do so; and it were far bet ter that they should die a natural death than that a premium should be given to mismanagement (to speak in the lightest terms) to continue its course of recklessness, unheeded for a series of years, and then apply to Parliament for means to repair the evils of its carelessness and ineff Parliament for means to repair the evils or us carelessness and memoracy. If such an enactment becomes the law of the land, a precedent is established which, at the same time it aids these evils, will in due time become the abettor of fraud and tergiversation. We by no means infer this is the case with the "Company of Copper Miners." Probably they think bished which, at the same time it aids these evils, will in due time become the abettor of fraud and tergiversation. We by no means infer this is the case with the "Company of Copper Miners." Probably they think they are acting the best for their own benefit; but the custom they would establish is ruinous to the community in general. This subject may probably be brought under the notice of the meeting to day; and we trust it will be discussed there in the spirit which its commercial importance deserves. We have a hope that some better and juster means will be adopted to extricate the company from their difficulties.

If no other plan is proposed we say that this is most unjust and decomposed to the company from their difficulties.

to extricate the company from their difficulties.

If no other plan is proposed, we say that this is most unjust, and derogatory to the principles which should govern a commercial community; and it would be far more honest if they were to pass through the ordeal of the Bankruptey Court. They would then have the public sympathy, whereas now they can but expect their unqualified disapprobation. It may be said that by so doing many interests must be sacrificed, but we urge—

"Fiat justitia ruat calum."

The explosions of the two steam-boilers at Stockport and Johnstone—so destructive to human life and property—has caused much excitement in the public mind, and ought to lead to a wholesome and rigid investigation, as to the erroneous and unscientific construction, deficiency in strength, or reckless working at a pressure greatly above what they were ever intended to bear. On carefully noticing the details of the several recent boiler explosions, there are some curious features of resemblance in all. They are cylindrical boilers of about 30-horse power, with inside tube forming the furnace and ash-pit—two of them quite new, and worked to from 24 lbs. to 30 lbs. per inch; while it is evident that great carelessness, to say the least of it, or through ignorance or parsimony, a sufficient number of proper stays had not been inserted. There cannot be a doubt as to the economy, as well as safety, of using high-pressure steam expansively, when nomy, as well as safety, of using high-pressure steam expansively, when thoroughly good and efficient boilers are made by boiler-makers of known character and experience; and as a proof that such assumption is correct, we need only refer to the Cornish engine, as adopted at all our large mines and where an occurrence of the kind rarely happens. The true Cornish and where an occurrence of the kind rarely happens. The true Cornish boiler is rarely to be seen in the north; and, perhaps, the finest specimen out of the county is the one erected by Mr. Wickstrad, at the East London Water-Works. The complete Cornish boiler, as now improved, is a smoke-consumer of the most simple description; and while complicated contrivances and gim-crack toys have been resorted to in the midas shoke-consuler of the most simple description; and white compiler cated contrivances and gim-crack toys have been resorted to in the midland counties, and legislative enactments have taken place to prevent the smoke nuisance, their engineers have entirely, either through rideolous pride or ignorance, overlooked the advantages of a Cornish engine—an example so worthy of being followed by them. It appears a serious evil that a thousand individuals are compelled to work in a factory at the foundation of which a mine is charged, ready loaded, and prepared, in the shape of a steam-boiler, to launch them all instantaneously into eternity, under the most trivial circumstances; and it becomes a grave question whether steam-boilers should not come under the ordeal of a regular official inspection, as well as the machinery in the manufactories.

In the House of Commons, on Tuesday evening, Lord ASHLEY mooted the question. He inquired of Sir George Grex whether the Government had directed its attention to the recent frequent boiler explosions in factories, and, if so, whether there was any intention of placing those boilers, as well as the machinery, under the superintendence of the factory inspectors? Sir George said the attention of the Government had been

drawn to the melancholy loss of life which had taken place, but he hardly saw how the duty of the factory inspectors could be applied to the boilers. We can tell Sir George. If the inspectors are scientific and active indi-We can tell Sir George. If the inspectors are scientific and active individuals, persevering in the due discharge of their duties, the boilers would come more legitimately under their views than any other parties, with little increase of duty, and without addition to the national burdens. We believe there is little that is mysterious or marvellous in these explosions; they are generally found to tear open at bottom, and the water rushing in upon the fire, raises an irresistable body of steam, which increases the rent, and hurls the boiler, like a rocket, into the air, destroying everything in its way; and we believe the principal causes to be defective construction in the first instance, or gross neglect or recklessness in after working.

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In the House of Commons, on Tuesday evening, in reply to Mr. HUME. Sir George Grey stated that the coal mine inspectors would lay the reports of their proceedings upon the table of the House either yearly or half-yearly : the latter, we should suggest, would be by no means too frequent, in order to keep the attention of Government and the public constantly alive to the working of the measure, how far the present imperfect legislative enactments meet the necessity of the case, and the general wish. In another column will be found a communication from Mr. MATTHAS DUNN, one of the inspectors for the north on the late deadful expectors. Witchill be found a communication from Mr. Matthas Dunn, one of the inspectors for the north, on the late dreadful explosion at Nitshill, from which it will be seen that, notwithstanding there are no coroners' inquests in Scotland, the necessary enquiries are not lost sight of, and there are the same facilities for trial, in case of criminal negligence or premeditated injury, as in England. Mr. Dunn has conferred another benefit on the mining population, by making a comparison between the practices which prevail in many of the Scottish mines, and the management of the collieries in the Northumberland and Durham districts, highly favourable to the latter. It is clearly shown, beyond doubt or cavil, that the Scotch system acts detrimentally, not only to the effective and economic working of the mines, but also in reference to sudden loss of life by falls of stone, explosions of gas, and bad machinery, as also the continuous undermining of the constitution by inhalation of carburretted hydrogen and carbonic acid gases, through inefficient ventilation. In the north of England the proprietors, or lessees of mines, employ suitable agents and sub-agents, who visit and direct all the operations. The collier has so much per ton for getting the coal; he has no charge of timber or procuring it: all his duties end when he fills his coal into the tub, and is directed when to use a safety-lamp or candle. The putter, or hauler, has also a fixed duty to perform, at so much per ton, and this duty is ended on placing the coals at an appointed place; boys employed as trappers, in driving horses, and all other work; the overseer, with a discretionary power to appointing others in cases of emergency; while every expense connected with the working of the colliery comes directly from the pockets of the owner, who having a permanent interest in it, feels it to his advantage to keep up the efficiency of the plant and machinery. Not so in Scotland—here the generally prevailing practice in the coal and ironstone districts is by contractorship, or inspectors for the north, on the late dreadful explosion at Nitshill. tract, and who, auxious to make all the profit possible, neglect the most common precautions for safety. On the working man depends the responsibility of leaving his work, often many hundred yards off, to fetch the props, which he probably cannot find of a proper length, and which if he gets, perhaps, does not know how to use them effectually. The natural result is a loss of life, and then the contractor pleads his understanding with the collier. No method of ventilation can be kept up without expense, the outlay for which may naturally be scrupled at by a person whose interest only extends, perhaps, over a few weeks; and this practice of contractorship in Scotland shows that many essentials to safety are wanting; and instead of having the roads, air-ways, and ventilation arrangements on sound and satisfactory principles, the contrary too often prevails, and ever will prevail so long as this pernicious system is adhered to.

Mr. Dunn does not deny that substantial contractors are to be met with, who maintain the well-being of the mine as well as a proprietor; but such are the exceptions, not the rule. It is but justice to say, that these objections are less applicable to the Nitshill Colliery than to almost any other in Scotland. The watchful and personal superintendence of Messrs. Coars is proverbial, their expenditure in the laudable endeavour to render the colliery safe has been enormous, and the most searching en-

Coats is proverbial, their expenditure in the laudable endeavour to render the colliery safe has been enormous, and the most searching enquiry will but redound to their credit. We are happy to hear that the subscription for the survivors goes on munificently; and that in addition to the very liberal donations of 500l. from the Messrs. Coats, and 300l by the Earl of Glasgow, several further large contributions have been received during the past week, which will, together, form a fund, we trusk in some degree tending to mitigate the harrowing sorrows of the survivors, which must be felt for their irreparable losses.

Notwithstanding the endeavours of the Legislature to abolish the accursed truck system, so immoral in its tendency, and by which the comforts of the working collier are abridged, and a portion of his hard-earned wages taken from him to swell the profits of the owner, or some butty or contractor shopkeeper, we fear the practice is far more rife than the public can conceive; and the fear of losing their work when once obtained, prevents the exposure of such cases by the work when once obtained, provents the exposure of such cases by the workmen, and the proper and exemplary punishment which should be awarded. An atrocious and bare-faced case of this description was heard before the Wolverhampton magistrates, in which George Roberts and Abraham Dikes, butty colliers under Mr. Pemberton, were the accused. From the evidence of John Churchilla, a collier, it appeared he entered the service on the 14th Japanery and continued to work putil the 14th March. On that January, and continued to work until the 11th March. On that day he applied for money, when he was told he " might go to the day he applied for money, when he was told he "might go to the tommy shop," getting a paper for the purpose to the amount of 4s, which was stopped out of his wages when the reckoning took place; he had only received 5s. in money during the whole time. WILLIAM H. REYNOLDS said he was a fellow-workman with CHURCHILL, and kept his accounts, as CHURCHILL could not write. He was present on the 18th January, when the goods were delivered, as he worked at the same place. He never had cash from the office. A book was produced, which witness said he had never seen, and if any mark was entered as his it was a forger, for he had never made it. CHURCHILL stated the same fact with regard to the mark as a signature in the book.

said he had never seen, and if any mark was entered as his it was a forgery for he had never made it. CHURCHILL stated the same fact with regard to the mark as a signature in the book.

For the defence, it was stated by one Bothwell that he paid the plaintiff 4s. on the 24th of Jan., and that the complainant put his mark to the entry in the book, and on several subsequent occasions, which statement was also supported by Thomas Hapers, the ground bailiff, who stated that he had been in the office when money was paid-both to Churchill and Reyrolds. The shuffling of this mode of defence is disgraceful to the parties; the offence charged against them was for an act on the 18th Jan., and they produce evidence of payment on and after the 24th. The bench also took this view of the case, and convicted the defendants in the penalty of 10l., and 1l. costs, which their attorney recommended them to pay. It was evident they left the main fact unanswered, as there were several other charges of a similar nature, previous to the 18th January, which were left to stand over, to give an opportunity to the parties to settle. The marks in the book produced are stated to be singularly similar, and well formed, totally unlike what an illiterate man, who could not properly hold a pen, would make.

As a convincing proof that our observations at the head of this article are not unfounded, and to show the public opinion of the laws for counteracting the nefarious truck practices, we may state that a public meeting was held at the Dragon Inn, Walsall, on the same evening as the abort inquiry was terminated, to petition Parliament to amend them, and to render them still more stringent and suppressive. The Mayor convende the meeting, and the resolutions were moved and seconded by the Hon. E. R. Lattleton, M.P., Rev. A. Gordon, and Messre. C. Forster, J. Wilkinson, and Linner, those the laws at deflance, or evaded them from their inadequacy; and Mr. Linner stated he had actually seen satis of flour pledged to raise money for rent, as the men

culator self acq too dec stateme of 127 t state the that par parties v iced. rent sub rated up very cre creased Many of on iron r at the procrease for a coalitio equalled wed, or that on co shown tha ir from b is expected presidential lengths, the line of po will no lor

The let ence to th eads us to when can to encoura and specula lead; and t but that cap we believe i without four the amount be, to the property and for their afford through strate, it is or dertaking wi selves of that culiar to South Staffordshire, and now unknown in the Potteries, Lan-

culiar to South Staffordshire, and now unknown in the Potteries, Lancashire, Yorkshire, &c. The petition was unanimously adopted, and is to be presented to the House of Commons by Mr. LITTLETON, M.P., and to the House of Lords by Lord HATHERTON.

In order to enforce the existing laws, and adopt measures for crushing the monstrous evil, before it takes a deeper root, and ruins every honest trader who attempts to compete with these swindling dishonest pests in the market for supplying the necessaries of Nie in exchange for labour, we are most happy to find that the Anti-Truck Association, established some time since, has received support, and is flourishing far beyond the expectations of its most sanguine admirers. Commencing by "filinging small stones against a giant," it has at length won repeated victories over the petty dirty tyrants of the truck system, who, like a certain vile priesthood, would not, if they could help it, allow men's souls to be their own, and now stands out in respectable and hold relief, promising soon to annihilate, even with the existing laws, this curse on the rights of those who "earn their bread by the sweat of their brow." We heartily wish the association success, and shall endeavour to second its efforts by every means in our power.

A cause of some importance to colliery proprietors, as well as the working miner, has been tried at the Glasgow Assizes. The plaintiff was John Smith, a collier, and the defendants, Messrs. James Beaumont Nellson and Robert Paterson, owners of the Bartonshill and Bargeddie Collieries, in Old Moukland, Lanarkshire. The plaintiff was employed by defendants, and alleged that in working the coal in Bargeddie Pit portions of coal had been left standing as stoops, or pillars, at fixed distances, to support the roof of the pit; but that in the months of May and June last the defendants, or their managers, gave orders for the removal of these stoops, in order to turn the coal to good account, and that on the 30th of the order to turn the coal to good account, and that on the 30th of the latter month the plaintiff was engaged in drawing coals along the bottom of the mine, when, in consequence of the removal of the pillars, there fell from the roof a large quantity of stones, earth, &c., weighing between 20 and 30 tons, which buried and crushed the plaintiff, where he remained for three hours, while 20 men were engaged in liberating him. It was for the injuries, and consequent loss of time which he sustained, that the present action was brought. For the defendants, it was stated that a short period before the occurrence, the overseer had made arrangements with setting of their period before the occurrence, the overseer had made arrangements short period before the occurrence, the overseer had made arrangements with certain of their men for working out the pillars in the western division of the pit. One of these parties was Peter Smith, plaintiff's brother, and it was a stipulation that the men should be careful, and put in sufficient timber props. Two days before the accident, the overman complained that Peter Smith was not putting in sufficient timber, and particularly requested a younger brother not to work there until it was rendered safe, and that on the day named Peter was absent, and the plaintiff was, contrary to rule, working in his brother's place. The defendants, under these circumstances, contended they were not liable, as the plaintiff had left his proper work, and, without authority, proceeded to a part of the pit where he was not required, and where the accident happened. Before the evidence was concluded, however, the defendants' counsel intimated to the court that, from the nature of the evidence, they could not resist the claim, and the jury accordingly gave a verdict for the plaintiff—damages, 1001, with costs and interest from the 27th Nov., 1850.

We last week inserted a communication, remarking on the erroneous impression which was likely to be produced by the conversation in the House of Commons between the protectionist, Mr. Booker, and Mr. Labouchers, the President of the Board of Trade, relative to the imposition of increased duties on British iron by the United States; and from much correspondence since on the subject, we are enabled emphatically to contradict the assumption of Mr. Booker, in attributing to the American Congress a decision never come to by them, which must have emanated solely from his fertile protectionist brain (?) where "the wish was father to the thought." The article in another part of this day's impression is in itself tolerably convincing as to the real state of the subject, and that the passing of Hunter's Appraisement of Duties' Bill will not advance the duties on British iron, payable under the tariff of 1846; but being in possession of a few facts, we feel disposed to give such speculators as Mr. Booker and his friends the benefit of them, also hoping they may suggest to Mr. Ladouchere that it would be more creditable, in the leader of an important official department, to make himself acquainted with the real bearings of a case before he expresses himself too decidedly thereon. To show how little reliance is to be placed in the statement that a division had taken place in the House of Representatives of 127 to 54 in favour of increased duties on iron, it is only necessary to state that every protectionist American paper has deplored the defeat of that party upon every motion for increased duties on iron; and neither in the leading articles of any Journal, or in the private correspondence of parties watching this question, has such an important division been noof 127 to 54 in favour of increased duties on iron, it is only necessary to state that every protectionist American paper has deplored the defeat of that party upon every motion for increased duties on iron; and neither in the leading articles of any Journal, or in the private correspondence of parties watching this question, has such an important division been noticed. It is the general belief that Mr. Labouthere and Mr. Booker have mistaken this division for one that occurred upon an entirely different subject. The state of the tariff question in America, and how operated upon by party compromises, is interesting, although probably not very creditable to the parties concerned. In December last, when Congress met, the Pennsylvanian ironmasters had secured a majority for increased duties on iron, by voting with the South on all slavery questions. Many of the protectionists were, however, anti-slavery men, and refused to sacrifice their principles on the slavery question, to assist in an increase of the tariff. This attempt failed. Secondly, as the votes for increased duties on iron numbered more than the cotton interest, these latter felt jealousy at the prospect of increased protection to the ironmanufacture, and no increase for them; and the New England voters refused to go with the ironmasters, unless cotton was included in the bill, under the impression that a coalition would carry both objects. A bill was moved, embrucing higher duties on iron and cotton. This again failed. Many voters who had promised support to iron, refused it when coupled with cotton, and the losses equalled the gain. The most dangerous of many combinations that followed, or were attempted, took place the last week of the session. It was, that on consideration the ironmasters lent their support to the River and Harbour Bills, the Western States would vote a tariff (this combination was successful in 1842), leaving cotton altogether out. It was, however, shown that the River and Harbour Bills would be burked, if such an alliance was per

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The letter of a correspendent, in another column, having reference to the prospectus of a company for working a mine in Ireland, leads us to offer some passing remarks on the several projects put forward of late; and we must admit that the time has approached when caution should be observed. Ever anxious have we been to encourage mining enterprise; but it would seem that scheming and speculating in London, Manchester, or elsewhere, would take the lead; and these we shall at all times oppose. There can be no question but that capital is required for mining enterprise; but, at the same time, we believe it will be admitted, representations are made too frequently without foundation, which require an exposition; while the absence of the amount of "purchase money" in the prospectus is in itself, or should be, to the public a safeguard, as showing to them that the projectors were not honest and candid. Most gladly should we advance all projects which had for their view the enhancement of the mining interests, and readily afford through our columns any information calculated to promote their views; but when we find that prospectuses and advertisements are put forward with false statements, and the most absurd views, as we can demonstrate, it is only our duty to cantion the public from embarking in any undertaking without first consulting a practical miner, or possessing themselves of that knowledge which will justify them in taking part—Ver. sap. The letter of a correspondent, in another column, having refer-

#### STATISTICS OF COPPER, LEAD, AND TIN.

The first quarter of the year 1851 having now expired, we proceed to ay before our readers the usual summary of the sales of copper ore by ublic ticketing in Cornwall and at Swansea; those of lead in London, Holywell, Aberystwith, and other places; and the quantity of tin sold, to the extent to which we have been able to obtain it-an amount which, probably, as we have before stated, does not reach a tenth part of the tinstuff raised in Cornwall and Devon. The quantity of copper ore sold in Cornwall during the past quarter has been 36,860 tons (21-cwts.), producing 2897 tons 4 cwts. fine copper, and realising 192,274L 11s. 6d., with an average price of 5l. 4s. 4d. per ton, and produce of 7.859 per cent. The statement, as compared with the last quarter, stands thus—

 
 Ore (21-cwts.)
 Fine Copper.
 Amount.
 Av. Price.
 Av. Proc.

 March 31, 1851... Tons 36,860
 .... 2897
 4
 ... £192,274
 11
 6
 ... £5
 4
 4
 ... 7859

 Dec. 31, 1850.......
 39,343
 .... 3103
 9
 ... 210,122
 7
 6
 ... 5
 6
 10
 ... 7887
 Av. Price. Av. Prod. Decrease ... Tons 2,483 206 5 £17,847 16 0 £0 2 6

Being a decrease of 2483 tons of ore, 206\frac{1}{2} tons fine copper, 2s. 6d. per ton in the average price, and 028 per cent. in the produce, with an amount realised less by 17,847l. 16s. As compared with the corresponding quarter of 1850, it is as follows:—

Ore (21-cwts.) Fine Copper. Amount. Av. Price. Av. Pro
March 31, 1851 · Tous 36,860 · · · · 2897 4 · · £192,274 11 6 · · £5 4 4 · · · 7859 March 31, 1850..... 37,608 .... 2974 10 ... 221,031 19 0 ... 5 17 6 ... 7907

Docrease ... Tons 748 77 6 £28,757 7 6 £0 13 2 '046 Decrease .. Tons 748

Showing still greater depreciation in the price, for, with a nearly equal Showing still greater depreciation in the price, for, with a nearly equal produce, the price is 13s. 2d. per ton less, and with only a decrease of 748 tons of ore, the amount of money is 28,757l. 7s. 6d. less than the quarter ended March 31, 1850. On referring to the price of copper at that period, however, the difference is accounted for—tough cake having them been selling at 88l. 10s. per ton, whereas the present quotation is but 84l. The sales by ticketing of Foreign, Irish, and Welsh copper ores at Swansea, during the quarter, consisted of 8898 tons, realising 109,946l. 12s. 6d., at an average price of 12l. 7s. 1d. per ton. Compared with the previous quarter, the result is as follows:—

Or	e (21-cw	rts.)	Amou	ınt.			Avera	ige	Pri	ice.
March 31, 1851 To	ns 8898	** ** ** **	£109,946	12	6	** ** ** **	£12	7	1	
Dec. 31, 1850	9143	*******	114,005	7	6		12	9	4	
Decrease · · · · · To	ns 245		£ 4,158	15	0		£0	2	3	

Being a decrease of 245 tons of ore, 4158/. 15s. in money received, and 2s. 3d. per ton on the average price. With the corresponding quarter of 1850, it stands thus—

30, 10	00000	us thus-		21-cw	rts.)	Amo	unt.		Avera	ge i	Price.
March	31,	1851	Tons	8898	*******	£109,946	12	6	£12	7	1
March	31,	1850		8690		£125,751	6	0	£14	9	5
						-	_	-			-
•	Inci	геазе	Tons	208	Dec	£15,804	13	6	£ 2	2	4

Being an increase on the quarter just closed of 208 tons of ore, but a decrease in the average price of 2l. 2s. 4d. per ton, and on the aggregate amount 15,804l. 13s. 6d.

The above quantity of	f ore was n	nade up as	follo	WS	:			
Ore	(21-cwts.)	Am	ount.			Avera	ge i	Price
Foreign To Irish Sundry slags	944	6,7	55 13	0		. 7	3 8	6 1 9
Total To		£109,9		_		£12	7	1

21-cw	rts.)	Amo	unt.		A	vera	ge .	Price.
4076	** ** ** **	£59,876	7	0		£14	13	9
1587		18,963						
432		11,337	6	0		26	4	101
798	*******	6,452	17	6		8	1	8
						7	2	9
386	*******	2,142	13	6	*******	. 5	10	11
7		56	0	0	*******	8	0	0
	4076 1587 432 798 527 386	1587 432 798 527 386	4076£59,876 158718,963 43211,337 7986,452 5273,761 3862,142	4076     £59,876     7       1587     18,963     2       432     11,337     6       798     6,452     17       527     3,761     6       386     2,142     13	4076     £59,876     7     0       1587     18,963     2     0       432     11,337     6     0       798     6,452     17     6       527     3,761     6     0       386     2,142     13     6	4076	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4076         £59,876         7         0         £14 13           1587         18,963         2         0         11 18           432         11,337         6         0         26         4           758         6,452 17         6         8         1           527         3,761         6         7         2           386         2,142         13         6         5         10

Total ..... . . Tons 7813 £102,589 12 0 £13 2 5 The average of the Burra Burra ores alone was 281. 1s. 8d per ton.

		ts.)								
Berehaven										
Knockmahon										
Ballynoe	79		. 437	12	0	** ** **		5	10	8
Molony	8		. 112	8	0	*****	• •	14	1	0
Kildnanne	29	*****	. 107	9	6	** ** **	••	3	14	0
Total To	ns 944		£6755	13	0		£	7	3	1

Companies.	C	ORNWA	LL.	1	S	WANSE	A.			TOTAL.		
	Tons.	£	8.	d.	Tons.	£	8.	d.	Tons.	£	8.	d.
Mines Royal	2132 6685	34,203	0		2069	6,663	10	3	8754	18,458		0
Vivian & Sons		23,111	3	9	213	1.843	8			56,445	6	11
Freeman & Co	5104						8	10	5317		12	7
Grenfell & Sons	5434	26,569		5	1039	12,249	4	8	6473	38,818	7	1
Crown Copper Co.	476	2,301	14	2	-	-	_		476	2,301	14	2
Sims & Co	5144	25,849	6	7	623	6,288	14	6	5767	32,138	1	1
Williams & Co	8260	50,612	16	2	2126	26,053	4	4	10386	76,666	0	6
Schneider & Co.	2501	12,080	12	6	399	9,053	13	9	2900	21,134	6	3
Mason & Co	1124	5,751	7	3	368	5,556	5	3	1492		12	6
English Cop. Co.	-	-	-		1056	13,643	12	8	1056	13,643	12	8
British & For. Co.	-	-	-		513	6,352	12	3	513	6,352		3
	36860	192,274	11	6	8898	109,946	12	6	45758	302,221	4	0

PRODUCE OF THE PRINCIPAL COPPER MINES OF CORNWALL AND DEVON SHIRE, FOR THE QUARTER ENDED MARCH 31, 1851.

Shine, For the Quan		MARCH 31,		
Ticketings.	Tons.	Amount.		Av. price.
Devon Great Consols 3	4549	£27,569 0 6		£6 1 2
Carn Brea 3		11,221 5 (		5 10 9
Par Consols 6		10,982 18 (		6 12 4
Great Consolidated 4		9,269 15 (		4 12 9
North Roskear 3		8,404 0 (		5 8 2
United Mines 3	1729	8,262 10 (		4 15 6
Wheal Buller 3	1061	8,149 18 6		7 13 7
Fowey Consols 6	1361	7,846 7 6		5 15 3
Wheal Basset 3	1295	7,605 13 6		5 17 5
West Caradon 3	993	6,989 19 6		7 0 9
Tineroft 3	2035	6,751 15		3 6 4
Wheal Seton 3	1343	5,417 13 (		4 1 10
North Pool 3	1539	5,440 12 (		3 10 8
Perran St. George 2	1127	5,356 14 6		4 15 5
Tywarnhayle 3	1367	5,347 5 6		3 18 3
Treviskey 2	910	5,273 17 0		5 5 9
South Wheal Frances 3	730	4,974 1 0		6 16 2
South Caradon 3	633	4,669 1 6		7 7 6
Alfred Consols 3	659	4,184 6 0		6 7 0
Wheal Friendship 4	583	3,914 16 0		6 14 3
South Tolgus 3	638	3,227 5 0		6 2 8
Bedford United 3	417	2,638 8 6		6 6 6
Levant Dadrence See I	511	2,315 8 0		4 10 7
East Wh. Crofty, Dudnance, &c. I	143	2,011 3 6 1,556 10 0		10 17 7
East Pool		1,556 10 0		
Treleigh	296	1,192 19 6		4 0 8
	266	1,190 15 0		4 9 6
Holmbush I	193	1,177 7 0	******	6 2 0
Condurrow 1	272	1,167 15 6		4 5 11
Camborne Vean and Wheal?	1000 0000		******	9 1 9 10
Francis	336	1,164 15 0	*****	3 9 4
Dolcoath 1	209	934 1 0		4 9 41
Tresavean 1	345	904 6 0	******	2 12 1
Wheat Mary 3	230	897 14 0	******	3 18 0
Wellington Mines 1	165	842 11 0		5 2 1
Marke Valley 1	260	789 2 6		3 0 8
West Wheal Treasury 1	141	785 2 0	*****	5 11 4
Wheal Ellen 2	127	731 7 0		5 15 2
When! Agar 3	154	691 15 0	******	4 9 10
Trethellan 2	204	524 11 6	*****	2 11 5
Hotallack 1	68	615 2 0	*****	7 5 7
West Wheal Seton 1	115	482 4 0	*****	4 3.10
Wheal Tremayne 1	117	451 16 0	*****	3 17 2
Wheal Comfort 1	301	445 4 0	*****	1 9 7
Rast Wheal Rose 1	42	438 18 0		10 9 0
West Fowey Consols I	68	435 4 0	******	6 8 0
Polberrow 1	144	431 4 0	*****	3 0 0
Copper Bottom 2	49	334 5 6	** ** **	6 16 5
Wheal Henry 2	68	325 5 6		4 15 8

Ticketings.	Tons.	An	nou	ak.		AY.	pr	ce.
Charlestown United 1	61	. 985	3	6	*****	14	m	- 6
West Wheal Providence	28	. 277	13	0		9	18	4
Cook's Kitchen 2	54	265	5	0		4	18	. 3
Trelvon Consols 2	48	0.00	16	0	** ** **	5	5	
Pendarves Consols 1	62	. 240	2	0		3	17	5
Gonamena 1	30	. 220	10	0		7	- 7	
Wheal Maiden 2	47		14	6		4	10	11
Carthew Consols 2	47	. 191	6	6		4	1	5
St. Aubyn and Grylls 1	33	. 185	0	0		8	13	1
West Wheal Jewel	42	. 177	9	0	*****	4	4	6
East Godolphin	52	. 170	12	6		3	5	7
West Wheal Basset 1	46	100	4	0		3	14	6
Wheal Unity Consols 1	53	200	12	0		3	4	0
Wheal Mary Consols 2	34	200	12	0	*****	4	18	
South Wheal Speed I	26	1.00	6	6		6	3	4
Camborne Consols 1	18	9.00	12	0		7	14	0
Wheal Jewel 2	33	9.00	14	0		3	16	9
Wheal Busy I	38	100	13	0		3	3	
Hawke's Point 1	45		7	6		2	13	6
Wheal Gorland 1	18	. 112	19	0		6	3	
Wheal Vyvyan 1	20	0.4	12	0		4	4	7
Wheal Clifford 1	13	60.47	14	0		8	18	
Wheal Towan 2	36		12	0		1	14	2
Pendarves and St. Aubyn 1	11	0.0	0	0		. 5	0	0
Wheal Penhale 2	13		11	6		4	3	11
East Wheal Treasury 1	14	4.00	5	0		3		6
Wheal Harriett 1	12	10	16	0		3	18	0
Wheal Susan 1	7	4.0	0	0		6	0	
Wheal Banns 1	12	10.0	14	0	*****	. 3	4	6
	11		17	0		2	3	4
	5	0.0	0	0		4	0	0
	70	168	8	0		2	9	6
sundry siags, &c 5		-		-		-	_	_
Tons 36	.860	£192,274	11	6		24	4	4

LEAD.

The quantity of lead ores sold by ticketing in London, Wales, and other places, of which we have been able to obtain returns, is \$209 tons, realising 109,800l. 14s., being a decrease on the previous quarter of 705 tons and 5197l. 3s. 4d. This quantity was obtained from the following mines:

	Mines. Tons.	41	пови	it.	
		£ 1499			
	East Wheal Rose1064			0	
	Lisburne Mines 834			0	
	Trelawny 459	701			
	Mary Ann 392	647		6	
	Newtonards 400	440		0	
	Tamar 202	414	7 8	8	
	Laxey 200	405	0 (	0	
	Westminster 335	3845	9	0	
٦	Goginan 220	3513	13	6	
	Foxdale 290	348	5 5	6	
	Deep Level	322		0	
	Callington	3078		6	
				0	
	Maesysafn •				
	Herodsfoot 235	2927		0	
	Machynileth 216	2516		6	
	Maesyrerwddu 185	216		0	
	Cwmystwith 180	204		0	
	Hendre 163	183	15	6	
	Pen-yr-henblas 160	1829	1	0	
	South Australia 143	1516	7	6	
	Trehane 95	1432	7	6	
	Shallee 82	1399	7	6	
		1396		3	
		1296		0	
	Jamaica	1255		o	
		1217		0	
				6	
	Caeconroy 87				
	Pant-y-mwyn 100	1107		0	
	Coetia Llys 83	1036		6	
	Nanteos 95	1025		0	
	Cwm Erfin 55	977		6	
	Wheal Golden 72	973	16	0	
	Cairnamore 80	886	0	0	
	Bryntail 77	***** 846	18	0	
	Glengola 60	715	0	0	
	Allt-y-Crib	663	7	6	
	Dryggith 50	594	0	0	
	Pant-y-celyn	515	1	0	
	Milwr 44	511	12	6	
		506		0	
		461	0	0	
			0	o	
			4	ö	
	Belgraves 38				
	Halkin Hall 34	390		0	
	Black Craig 38	386	9	0	
	Bryn-Arian 30	354		6	
	Chili 3	330	15	0	
	Tregorden	287	11	7	
	Level Newydd 24	272	8	0	
	Cwm Sebon 16	268	16	0	
	Cem Bruno 14	165	4	0	
	Daren 10	150	0	0	
	Axton 12	140	14	0	
	Carthew Consols	133	11	6	
	Dyfngwm	130		6	
	Phospydol 9	102	7	6	
	Rhoswydol 9	102			
	Total	£109.800	14	0	

Total ..... Tons 8209 re lead ores were purchased as follows:-

		9
Newton, Keates, and Co 1647 22,304	4	. 3
Sims, Willyams, and Co 839 11,586	10	
Tamar Company 526 7,735	9	0
Thomas Somers 430 7,522		6
Pontifex and Wood 7,381	8	0
Matherand Co 4,097	0	0
J. T. Treffry's executors 220 3,647		3
Panther Company 3,311	9	0
Evton and Co		3
Locke, Blackett, and Co 163 1,177		0
R. Michell and Son 71 882		9
Penpoll Company 82 537	0	0
Total Tons 8209 £109,800	14	0

TIN.

As usual, we have to complain of the dearth of information during the quarter as to the sales of tin; the whole of the transactions forwarded us amounting only to 282 tons 16 cwts. 3 qrs. 24 lbs., and realising the sum of 13,546l. 15s. 8d., from the following mines:—

Tincroft Tons	78	0	0	0	** ** ** **	£3285	15	0	
Drake Walls			0	0		2770	15	6	
Budnick				20		1943	15	0	
Rocks and Treverbyn			1	20			9	7	
Great Beam	20	10	3	15		1117	12	18	
East Crowndale	24	0	0	0		1081	5	0	
Mineral Court	16	0	0	1		837		-2	
Plymouth Wheal Yeoland	5	10	0	0		282	16	3	
South Friendship Wheal Anne	4	10	0	0		217	6	3	
Georgia Consols	2	15	1	1		145	10	0	
Birch Ter	9	0	0	0		108	0	0	
Wheal Mary Emma		0	0	0		104	10	0	
Wheal Vincent		2				90	14	3	

V hie	ch tin ores were purchased a	is fo	llo	ws	:	,				
	Union Smelting Company Tons	82	15	0	0	*******	£3695	4	4	
	By private sale						2469	6	0	
	Daubuz and Co		16	1	2		2237	15	0	
	Calenick Company		13	2	5	*******	1768		8	
	Bissoe Smelting Company		15	0	0		1169			
	Williams, Foster, and Co	20	18	1	10		905		0	
	Enthoven and Son	16	3	0	24	** ** ** **	882			
-	Carvedras House	- 5	0	1	11	*******	272			
	Bolitho and Co	. 2	15	1	: 1	** ** ** **	145	10	0	
	-7.41		-	_			CT C 48	18	-	
	Total tons	282	16	3	24		13,546	TO		

FORTUNATE MINING ADVENTURE. - Letters from Carlsruhe, of the 17th inst., nention a fortunate speculation just made by M. Reinhard, a banker of Manmention a fortunate speculation just made by M. Reinhard, a banker of Manheim, who had not long since purchased from the Baden Government the silver-lead mines of Wiesloch, the working of which had been abandoned for upwards of two centuries. His engineer, an Englishman, named Wells, on the first visit which he made to the mine, found three galleries hermetically closed by enormons blocks of stone. On having them opened, he found large masses of calamine, some loose and some still fast to the rock. Mr. Wells estimates the quantity at 1,000,000 quintals, which, at the present market price of the artiels, would be worth 6,000,000 diorins (15,660,000.) The galleries admit of being prolonged, as according to all appearance the veins of the mineral extend as far as the town of Rabberg. Mr. Wells is of opinion that these galleries have been closed for more than 10 centuries, and that they had been worked by the Remans, but merely for the purpose of extracting the lead. The calamine he considers had been neglected from ignorance of its ase in the manufacture of brass.

Bolberrow ... 1 144 431 4 0 ... 2 0 0 Copper Bottom ... 2 49 334 5 6 ... 6 16 5 Alta California had been printed in letters of gold, formed from a solution of Trannack and Bosenes 1 34 286 19 0 ... 6 14 8 the oro of the mines, for transmission to the Crystal Palace.

## Original Correspondence.

THE LATE CATASTROPHE AT NITSHILL COLLIERY.

THE LATE CATASTROPHE AT NITSHILL COLLIERY.

Sire,—Lobserve that your correspondents are anxious to see some authenticated report concerning the late catastrophe at Nitshill Colliery, whereby 61 persons were hurried into eternity. I also observe that some of the remarks are made in consequence of their not understanding the law of Scotland regarding the loss of life. I will, therefore, apprise them how the matter stands in this and all similar cases.

The Lord Advocate of Scotland is the public prosecutor, and the Procurators Fiscal are legal persons appointed in lieu of our coroners, to examine parties relative to the cause of accidents that have led to the loss of life. These examinations are taken privately, and forwarded, together with the report of the Fiscal, to the Crown-office, Edinburgh; and the said advocate and his depute then determine whether any grounds exist for a criminal prosecution of any of the parties.

acrocate and his depute then determine whether any grounds exist for a criminal prosecution of any of the parties.

I examined the colliery, and all the circumstances relative to the unhappy affair, and duly reported the result to the Lord Advocate, as well as a copy to the Secretary of State. It would, therefore, be premature in me at present, without their authority, to satisfy the public curiosity as to any other details than have found their way into the public press. I may, however, be permitted to observe that the liberal and charitable conduct of the preprint way the public press. may, however, be permitted to observe that the liberal and charitable conduct of the proprietors, upon the melancholy occasion, has done much to assuage the deep feeling of the sufferers; and their determination to adopt every suggestion for the future safety of the colliery, which is in unison with every other proprietor in Scotland with whom I have met, gives promise that the working of the Act will gradually lessen the dangers to which miners are exposed.

Matthus Dunn,
Mining Inspector. iners are exposed.

Newcastle-on-Tyne, April 2.

PREVENTION OF THE ACCUMULATION OF GAS IN COAL MINES

Sir, —The late dreadful colliery accident induces me to lay before your readers a plan which I have long thought would, in a great measure, if not reacters a pair which I have long thought would, in a great measure, it not entirely, prevent the accumulation of explosive gas which takes place in old workings of coal mines, and at the same time secure an escape for it from the parts of the mine in work, should any part of the roof fall in, and thereby stop any of the air courses leading thereto; but not being practically acquainted with coal mines, I have hesitated in making it public, fearing lest it should turn out that I have "found a mare's nest."

My proposal is simply to hove from surface A in holes down to and

My proposal is simply to bore from surface 4 in holes down to, and communicating with, the galleries of the mine. The carburetted hydrogen would rise to grass, and thus a constant drain would be kept up, at no expense, after the first outlay, for, of course, these holes could never become choked by the fall of the roof. It is very possible that, from causes I am unacquainted with, the plan would not answer, and even if it would, the expense may be an objection; but I think I could show the possibility of horing a 4 inch loss 200 wards doen at an expense of nor more then

of boring a 4 inch hole, 200 yards deep, at an expense of nor more than 100l. in fair ground, and leave a sufficient profit to the borer.

If this can be done and the plan would answer, the cost should not be weighed for one moment against the safety of our fellow-creatures, even if it was double.—Vox in Desertum: April 1.

## DISCOVERY OF "ALLANITE" IN CUMBERLAND.

DISCOVERY OF "ALLANITE" IN CUMBERLAND.

Sir,—I beg to state that I have discovered this very rare mineral in a specimen from Carrock Fell, Cumberland. It is found both massive and crystallised; the crystals are imbedded in the mass, in oblique four-sided prisms, well defined—colour yellowish brown, translucent on the edges. With the blow-pipe alone it fuses to a shining black glass, not attracted by the magnet; with borax on the platinum wire, it behaves like cerite. It consists of silica, cerium, alumina, lime, oxide of iron, and water. I believe I are the fiver present the hear interduced this convergence of the core. lieve I am the first person that has introduced this, or any other ore of cerium, into the list of British minerals.

Roscoe Arcade, March 31.

F. P. MARRAT.

ANCIENT GRANT OF LAND IN CALIFORNIA-BY CHARLES THE FIRST TO THE EARL OF STIRLING.

SIR,-At the present time, when the attention of so many persons is drawn to mining speculations, and so great a proportion of the public, not only of this but of other countries, is becoming pecuniarily interested therein, useful information in reference thereto, of whatever character, may only of this but of other countries, is becoming pecuniarily interested therein, useful information in reference thereto, of whatever character, may be more or less acceptable. Adverting to your Number of the 15th of last month, in which is an article under the head of "Doing the Californians," respecting a company in Paris, called La Californiane, of which it appears a M. Hochogesangt was the manager, and that "he made a contract with the Earl of Stirling to purchase the right which that nobleman was supposed to have over extensive properties in California, in consequence of a grant to his ancestor by Charles I, but it was not carried out, and the question of the availability of the grant under the American Government was not discussed." I beg leave to offer a few, perhaps useful, hints thereon. That such a grant was made by Charles I, in 1628 is true. That it was competent to the King to make such grant is likewise true; also that the grant was ratified by a special Act of the Scots Parliament, which, inter alia, was preserved by the 18th article of the Act of Union between England and Scotland in 1707; but these facts alone are not sufficient for any party about to enter into such a contract, as will be seen by the following brief statement:—The gentleman styling himself Earl of Stirling made up titles in his own person, according to the law of Scotland, it being originally a Scotch grant, and requiring a succeeding heir so to do, to the territory in question in 1828, as nearest and lawful heir of Alexander, the first Earl of Stirling, the original patentee. Certain actions, in which the soi disant Earl of Stirling was plaintiff, were subsequently brought in the Court of Sessions in Scotland, in the last of which the supposed carl was concerned, before the High Court of Justiciary, in Edinburgh, over the particulars of which I draw the voil; but the result was, that the whole fabric of the titles raised by him in his own person to the territory of California was entirely swept away. It is to guard the public

STEAM-BOILERS

STEAM -BOILERS.

SIR,—I feel obliged by the communication of "An Engineer," in your last Journal. The boilers contained only one tube each, running their whole length, and of the following respective dimensions—viz.: No. 1, 3 ft. 11 in.; No. 2, 3 ft. 6 in. The fire was placed under each boiler, and there was, consequently, no fire-box. I hope these particulars will enable your correspondent to form a better opinion on the change that has been made, and that he will be good enough again to communicate through the medium of your columns.—INQUIRER: April 3.

## IMPROVED FIRE-BARS.

—In your Journal of the 22d March is a notice of a patent having aken out by Messrs. Cochrane and Francis for a V or U-shaped bar, with argillaceous or arenaceous material, pressed into, or simply lodged within, the V-shaped hollow. Will you allow me to state that this very mode of constructing a furnace bar was patented by myself in 1845—the V or U-shaped recess to be filled with any heat-refracting or electronon-conducting substance? I am aware of the great advantage, not only as regards greater duration of fire-bar, but especially from the economy of combustible, induced by the electro-thermic influences of thus insulating the lim, any furnace, whereby the highly electric flarms scale. burning fuel in any furnace, whereby the highly electric flame seeks i impinges upon the metallic body to be heated, and thus securing the black of the redundant heat in a more concentrated form—a result the fact that "the plus-electric state is favourable to the retention and centration of heat."—WILLIAM RADLEY, Ch. E.: London, March 27.

## THE PATENT LAWS.

THE PATENT LAWS.

Str.,—You have much advocated the cause of the poor man of genius, whose means will not admit of him securing his invention by taking out a patent; but allow me to remind you that I do not think stress enough has been laid upon the consequences of high-priced patent right, as regards America. For instance, with regard to steam machinery, what will suit England would be desirable on the other side of the Atlantic, which doubles the expense; for whatever is charged for a patent in England, whether 10L or 100L, they will charge the Englishman the same, though to their own people the charge is no more than about \$30. They say this is but fair, to charge as they are charged; they overlook the fact, that in

England an American is not charged more than an Englishman, or any other countryman. This is Brother Jonathan's one-sided view of fair dealing, which should be met by low prices; but what militates against that is, that at the meeting, the other day, the patent-office keepers were consulted by the Ministry. They, of course, are for high prices; the larger the cheese, the more plentiful the parings.—B.: France, March 26.

#### COMPRESSED AIR SAFETY-LAMP AND RESPIRATOR.

We have already noticed the progress made by the Baron Von Rather in his researches into the properties and powers of compressed air for locomotive machines, for land or water, and for safety and sanitary purposes in mines and collieries. We now proceed to describe a new safety compressed gas lamp, and a compressed air respirator, by the first of which the miner can work in comparative comfort in his gloomy abode, from the increased amount of light and perfect safety; and with the aid of the latter, he may with a moderate degree of presence of mind, in case of an explosion, secure himself from injury until the danger has passed. These explosion, secure himself from injury until the danger has passed. These inventions, although patented, are offered gratuitously to the public by the Baron, in the hope that those whose duty it is, as well as interest, to watch over the proper ventilation and healthy and safe mode of working of every colliery, will adopt a plan which he considers would prove an absolute security under all circumstances, and render deaths and injuries from explosions almost unknown. The late dreadful catastrophe at Nitshill, the collateral causes of which, as with the majority of explosions, can never be arrived at, was, there can be little doubt, brought about by one of those sudden and overwhelming blowers of carburetted hydrogen, which no ventilation, however good, can safely prepare the miner to counteract while the employment of naked candles is sanctioned; and, as the Davy lamp is generally allowed to be deficient in that illuminating power, necessary for generally allowed to be deficient in that illuminating power, necessary for the collier to earn a subsistence for himself and family, and under certain conditions of the atmosphere of a mine, as acknowledged by the illustrious conditions of the atmosphere of a mine, as acknowledged by the illustrious discoverer himself, absolutely dangerous—a real safety-lantern would indeed be a boon to the mining population, to colliery proprietors, and the public at large. Such a lamp the Baron Von Rathen is confident he can produce, the principle of which may be understood from the annexed diagrams and description; and, as the construction of one, with its accompanying reservoir of compressed gas would involve no great expense, we shall be most happy, to see the subject taken up by some public-spirited philanthropist, connected with our collieries, and who would give the invention a fair and impartial trial.

THE SAFETY-LAMP.

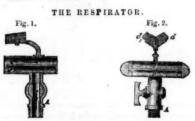


Fig. 1 is a vertical section, and fig. 2 a plan of the safety-lamp or lantern. A is the regulator, which admits to, and keeps at regular density in, the cylinder the gas admitted from the compressed gas reservoir, hereafter to be described, whatever may be its pressure in that vessel; b, the supplypipe, with cock passing from the reservoir to the regulator. The flame is surrounded by a small open glass cylinder, to prevent, when the lamp is agitated, the flame from reaching the outer one, which forms the case of the lantern. L L, is the glass cylinder, the bottom of which is connected to the brass ring, r, by gutta percha or caoutchouc, and in the centre of the top is an opening connected with the funnel, covered with wire gauze. Another cover of sheet-iron is so arranged over the lantern, as to allow a constant draught of fresh air to pass round the funnel; d, are the wire gauzes, which form the bottoms of the lantern and burner, and the cover of the funnel, where the products of combustion escape. There is thus a continuous current of fresh air through the interior, which keeps the whole cool. The bottom opens to light the lantern, which is to be done before the miner enters his stall; g, are iron rods, by which the top and bottom are serewed, together; and f is a balance-piece, which also forms a handle. The reservoir for containing compressed gas to a pressure of from 15 to 20 atmospheres, for supplying the lantern, consists of two concentric cylinders, the annular space between forms a spiral hollow vessel, into which the compressed gas enters for expansion by the cock, d. By this arrangement a large surface is exposed to the atmosphere, by which the altered temperature of the expanding gas is brought to its natural condition. The gas is admitted to the lamp by a brass tube and flexible joint, attached to the top of the spiral; and the reservoir, which will contain several days' supply, may be left in the stall, when the minor finishes his periodical labour. As, however, under the most perfect arrangement, some occasional accidents from explosions must be expected, a plan is proposed for adoption, under which the miner would have at his co the cylinder the gas admitted from the compressed gas reservoir, hereafter

posed for adoption, under which the miner would have at his command a supply of pure air, whatever sudden changes or conditions of the ventilation might render the atmosphere of the mine deleterions.

It is suggested to have similar reservoirs to the one above described in various parts of the mine, but filled with compressed air, instead of gas, and of such a size that, by a leathern belt passing through the handles, it can be in a moment of danger buckled on to the back like a knapsack. The regulator in this case would be attached to the reservoir, from which, by a flexible tube and respirator, the miner would be supplied with an abundance of pure air, while surrounded by a fiery or carbonaceous and poisonous atmosphere. poisonous atmosphere.

Fig. 1 and 2 is a front and side elevation of the respirator. By presing the mouth against the oblong front, b c, and the nose into the angular box, d, which is lined with caoutchouc, the nostriis are closed; and by the inspirating valve, b, and expirating valve, c, the person breathes freely pure air from the reservoir, while the products from the lungs pass off through the partition, c. The same apparatus would be highly efficient for through the partition, c. The same apparatus would be highly efficient opening old closed wells, cellars, or caverns, entering brower's vats, other operations in which foul air so often proves fatal to human life.

RAILWAYS IN SOUTH AMERICA.—The first rails on the Panama Railroad were laid on the 24th Feb. A locomotive and tender were landed by the Port Admiral, Walford, on Washington's birthday. Blost of the labourers on the railroad had been ill with the fever, but were generally convalescent. The Copiapo Railroad is making very satisfactory progress. About four miles of tract have been laid already. The first ship-load of timber from the southern provinces of this country had arrived at Caldera; a second, from Chiloe, was expected to follow very soon. The survey of the route for the Santago Railroad has been commenced. The surveying party have already carried their line as far as Vina de Mar. They are actively engaged upon it, and will soon reach the mouth of the Concon river. Hitherto no insuperable difficulties have been encountered. The railway between Callac and Lima is progressing rapidly, and will be concluded probably in April.

From experiments made on the wires of the electric telegraph of the Versailles Sailway, the mean quickness of sound has been ascertained to be 3485 metres are second; more than double the speed laid down by Newton, Halley, Duramel, and others.

#### THE BOGHEAD CANNEL COAL

An interesting and valuable discovery has been made in the neighbourhood of Bathgate of a Cannel coal, superior in gas producing properties, both for quantity and illuminating power, to any coal in the kingdom. There has long been a tradition in the locality, a few miles west of Edinburgh, that a coal formerly existed—pieces of which the inhabitants carried about like torches to light them through the streets; but the most angacious had never been able to discover any remains of such coal seam, until Messrs. Russel and Son unexpectedly came upon a queer looking seam of some mineral, hard, light, and of a dull brown colour, which turns out to be a Cannel coal of a most extraordinary kind, and the most valuable in the kingdom. The seam is only 15 in. thick; but slips of it ignite like a piece of pine, giving out a brilliant flame. The quantity of gas yielded by it from retorts is much larger than from the best English coal, and produces double the light—a ton yielding gas equal to 507,000 spermaceti candles. Its general properties may be understood by the following inscription, engraved in English, French, and German, on a block, which has been forwarded to the Exhibition:—

This coal is raised at Boghead, near Bathgate, a few miles westward of Edinburgh.

which has been forwarded to the Exhibition:—
This coal is raised at Boghead, near Bathgate, a few miles westward of Edinburgt, in Scotland. It is the most highly bituminous coal known, and, therefore, peculiarly adapted for the manufacture of gas, for which it is exclusively used. It yields 13,500 cubic feet ofgas teeing considerably more than is mentioned in the published analysis), of the specific gravity of 775 (air being 1) per ton of coal; and a burner consuming at the rate of I cubic foot per hour, gives a light equal to 8½ spermacetic candles, each consuming 120 grains of sperm per hour. The light yielded by 1 ton of this coal is equal to 1990 ibs. of sperm candles, being nearly five times more than from the same quantity of Newcastle coking coal, and upwards of 2½ times greater than the best Wigan Cannel coal.

1990 lbs. of sperm candles, being nearly five times more than from the same quantity of Newcastic coking coal, and upwards of \$2\psi\$ times greater than the best Wigan Cannel coal.

The greater quantity of gas yielded, and its increased illuminating power, renders it nearly four times as valuable as the best gas coal hitherto used, and a saving of carriage is effected by its larger quantity of gas per ton. The gas is too oleaginous to be used alone, and renders it highly valuable in the English markets for mixing with the poorer and drier sorts of coal. Already, we understand, large contracts have been entered into to supply the London companies, and extensive operations are being carried on for extracting the coal. The estate of Balbardie, and other properties in the locality, are being actively explored, and much mineral wealth is expected to be developed. Experiments and analyses have been made by Drs. Fyfeand Penny, and Mr. Alfred King—giving volatile matter, 69; coke, 31=100; the coke containing 30 per cent. of carbon, and 70 per cent. of ashes. These, again, consist of 71 per cent. of silica, and the remaining 29 per cent. of lime, alumina, magnesia, and a minute portion of iron, in union with sulphur, about 3 lbs. to the ton of coal. A cubic foot of gas burns 88\frac{1}{2}\$ minutes, giving light equal to 7.72 sperm candles; and, after passing the lime purifiers, does not contain a trace of sulphur. The best English coking coal only gives a light equal to 2.73 candles.

#### IMPROVED BOILER-SUPPLY APPARATUS.

IMPROVED BOILER-SUPPLY APPARATUS.

That a regular and efficient supply of water to the boilers of steamengines is one great panaeca for the prevention of explosions is generally admitted, and it is also well known that few of the means at present adopted are efficient for the purpose. To supply this great want, Mr. Gray, an engineer of Glasgow, has patented an apparatus which, while extremely simple, is said to be highly effective. It consists of an open iron cistern, holding about 10 gallons, placed close over the top of the boiler. In the centre is a cylindrical vessel, containing 3 gallons, communicating with the interior of the boiler by two pipes of different sizes, the smaller being a steam-pipe which just enters the boiler, but passes to the top of the cylinder; the larger one reaches nearly to the bottom of the boiler, and just enters the cylinder. To the top of each tube is a conical valve opening downwards, and in the bottom of the cylinder is a valve opening upwards, to admit water from the cistern. A lever about 4 ft. long is jointed to a bracket on the edge of the cistern, forked at one end to support a flat oblong copper vessel, called a tundish, holding about 2 gallons of water, and so hung as to empty its contents on descending, and on the other end is a weight heavier than the tundish when empty. Water is supplied to the latter by a pipe having a cock and ball float, which regulates the discharge. Supposing the copper vessel to be full, its weight overcomes the upward pressure of steam on the small valve, and opens it, the lever is depressed, the water valve is opened, and any water in the cylinder will descend into the boiler, and the vessel be filled with steam. In descending, the tundish is tilted, and the water emptied into the cistern, the counterbalance weight then raises the lever and empty tundish back to their original position, closing the valves. A vacuum is soon formed in the cylinder by being immersed in the cold water cistern, and water flows in from the cistern through the valves should the water in the boner rise above the bottom of the smain scam pipe, hot water would be forced up into the cylinder instead of steam, and the action of the apparatus be retarded until the supply was again needed, when the same operation would be repeated. It is stated to be economical in cost, not liable to get out of order, and in every way a most effectual piece of mechanism.

BIRAM'S PATENT ANEMOMETER, FOR MEASURING

THE CURRENT OF ARE IN
This INSTRUMENT is CONSTRUCTED so that
the ACTION of a CURRENT of AIR on EVERY
PART of the VANES may tend to PRODUCE a
REVOLUTION of the WHEEL in the same time—
the number of feet lineal which have passed throug
the wheel being shown by indices which revolve on
the dial plate underneath the handle.
Further particulars, with references, may be had
on application to the patentee.

BIRAM'S MINER'S LAMP,

BIRAM'S MINER'S LAMP,

COMBINING LIGHT, SAFETY, AND
ECONOMY.

The PATENTEE respectfully solicits the attention
and patronage of COAL PROPRIETORS to the above
LAMP—the LiGHT from which will be found FOURFOLD that of the Davy Lamp—the SAFETY SUPEFOLD that of the Davy Lamp—the SAFETY SUPEFOLD that of the Davy Lamp—the SAFETY SUPEfold, and the COST IN OLL not ONE-HALF the
expense of candles, even when burning free from
draft; whilst, from the light being shielded from the
wind, a current of air, inadmissable where naked
candles are used, may be passed through the galleries of a min e without inconvenience.

Wentworth, near Rotherham.



EATING'S COUGH LOZENGES.—A certain remedy for
Disorders of the Pulmonary Organs, in Difficulty of Breathing, in Redundancy of
Phlegm, in incipient Consumption (of which cough is the most positive indication), they
are of unerring efficacy. In Ashima, and in Winter Cough, they have never been known
to fail.—Prepared and sold in boxes, is. 14d., and tins, 2s. 9d., 4s. 6d., and 10s. 6d. each,
by Thomas Keating, chemist, &c., No. 79, St. Paul's Churchyard, London.—Sold retail by
all druggists and patent medicine vendors in the kingdom.

all druggists and patent medicine vendors in the kingdom.

IMPORTANT TESTIMONIAL.

Copy of a Letter from Colonel Hawrer (the well-known author on "Guns and Shooting.")

Longparish House, noar Whitchurch, Hants, October 21, 1846.

Sir.—I cannot resist informing you of the extraordinary effect I have experienced by taking only a two of your Lozengos. I had a cough for several weeks, that defeed all that had been prescribed for me; and yet I got co...pletley rid of it by taking about half a small box of your Lozenges, which I find are the only ones that relieve the cough without deranging the stomach or digestive organs.—I sm, Sir, your humble servant.

To Mr. Keating, 79, St. Paul's Churchyard.

P. HAWKER.

Copy of Letter from Dr. Lococz, dated 26, Hertford-street, Mayfair, Feb. 17, 1851.
S1s., -In reply to your inquiry, I have no hesitation in assuring you, that the Fulmonis Waters, Famale Wafers, Antibilious Wafers, or Female Pills, that have so often been advertised with my name, are not mine, nor do I know anything of their composition, nor have I anything whatever to do with them, either directly or indirectly. -Yours, &c. To Mr. Keating, 79, St. Paul's Churchyard.

CHARLES LOCOCK, M.D.

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Banker

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DEVON CONSOLS NORTH COPPER MINES,

LAMERTON, DEVON.

The lodes of which are parallel with, and one of them less than 330 fathoms from the main lode of, the Devon Great Consols, from which upwards of £500,000 worth of ore has been raised since 1845.

In 5000 shares—3000 of which have been taken up by shareholders in Devon Great Consols, and other mines in the immediate neighbourhood. The remaining 3000 shares will be issued to unexceptionable parties at £2 10s. each, which includes a call of 10s. per share, already made on the whole 5000 shares, to be applied for working expenses.

To be worked on the "COST-BOOK SYSTEM" of the county of Cornwall.

COMMITTEE.

Chairman—FRANCIS MORRIS, Est., a Director of the Devon Great Consols.

Mairman—FRANCIS MURRIS, ES;, a Director of the Devon Great Consols
W. E. BELL, Esq. 3 Lessees. NATHANIEL IRON, Eeq.
T. HARVEY, Eq. 3 Lessees. RICHARD HALLETT, Jun., Esq.
Bankers—Messrs. Barnett, Hoare, and Co., 62, Lombard-street.
Managing Agent—Selm Hitchins, Esq., Tavistock.
Purser—John Peter, jun., Esq., Callington.
OFFICES,—16, ST. DUNSTAN'S-HILL, TOWER-STREET, LONDON.

Further information will be afforded at the offices of the Company, 16, St. Dunsts hill, Tower-street, where applications for prospectuses, and for the unappropriated and may be made, addressed to the committee.

DEVON CONSOLS NORTH COPPER MINES, LAMBRTON,
DEVON.—NO FURTHER APPLICATIONS for SHARES will be RECEIVED
after MONDAY nest, the 7th inst.—April 1, 1851.

LANIVET CONSOLS COPPER MINE
TROSTEES.—Mr. R. BRAY, Town Clerk, Bodmin.
Mr. J. H. LIDDELL, Bodmin.
Applications for shares to be made to Mr. T. Allsop, 1, Royal Eschange buildings.—NO APPLICATIONS RECEIVED after MONDAY next, the 7th inst.

WHEAL CARADON COPPER,—ST. CLEER, CORNWALL Divided into 5000 shares.—Deposit £1 per share, 2500 of which are retained by the present proprietors—the remaining 2500 will be issued to the public at £1 each, which includes a call of \$5. per share.

CONDUCTED ON THE COST-BOOK SYSTEM. COMMITTEE OF MANAGEMENT.

NATHANIEL IRON, Esq., 16, St. Dunstan's hill.
Mr. SHERIFF HODGENISON, 74. Cornhill, London.
J. REYNOLDS, 15, Old Broad-street.

Bankers—Barclay, Bevan, & Co., Lombard-street, London; Devon & Cornwall, Liskeard Purser—Edward Anson Crouch, of West Caradon, Liskeard. Managing Agent—Capt, Henry Taylor, of West Caradon.

Purser—Edward Anson Crouch, of West Caradon, Liskeard.

Managing Ageni—Capt. Henry Taylor, of West Caradon.

This mine is held by lease from Richard Doldge, Esq., at 1-14th dues, and is situated in the neighbourhood of Liskeard, on the eastern stope of the Caradon Hill, near the village of Caradon, and near to the well-known South and West Caradon, and other rich and dividend-paying mines, and immediately adjoining Tokenbury. There are several lodes rauning through this sett; the principal one is the same as the main lode in South Caradon being a continuation offi, the works of which are at no great distance. The direction and contents of the lodes in both mines are in favour of its indentity as one lode, from which some fine stones of copper ore has been taken.

The sett of Wheal Caradon consists of the estate of South Yeoland and part of Tokenbury, as far south and including the new G lode

The main lode of this mine was worked a few years since, 50 fathoms deep, by means of a water pressure-engine, but as half the mine was held by the adventurers in the neighbouring mine of Tokenbury, when this mine was suspended the working of Yeoland Consols was necessarily stopped also: since that time the name of Yeoland Consols has been adopted for a mine in Devonshire, and it is, therefore, proposed to call the Cornish mine Wheal Caradon. Although 50 fathoms was reached by means of the pressure-engine, only one part of the lode was cut at that depth, and no cross—cuts were extended either at that or the 39 fathom level. One branch of the main lode has been driven on west towards Caradon Hill, and is a most promising lode, 2 feet which it is proposed to cut this south branch of the main lode, and if there is not power sufficient to sink and drive on it, and cut a large lode not seen under adit, and only a few fathoms distant, then to apply for the aid of Tokenbury steam-engine, from which rods to Wheal Caradon. The discovery of copper ore in granite, at Phoenix, to the east of Caradon Hill, increases the prospects and c

then to apply for the aid of Tokenbury steam-engine, from which rods to Wheal Caradon can easily be taken.

The discovery of copper ore in granite, at Phoenix, to the east of Caradon Hill, increases the prospects and certain success of Wheal Caradon.

This company will commence operations under peculiarly advantageous circumstances, as all the machinery and materials requisite for the future working are already on the mine, and which can be immediately set to work, the present proprietors being willing to dispose of one-half their interests at £1 per share. This sum, after providing for all expenses hitherto incurred—as purchase of machinery, materials, &c., now on the mine, and work already done, which has cost from £3000 to £4000—will leave an available amount of £1230 for working capital, which is considered amply sufficient to bring the mine into a profitable and dividend-paying state, which this company will necessarily derive the advantage of, both with regard to time and money.

Looking at the relative position of this mine, and keeping in view the several promising lodes running through it, more particularly that of the main lode at South Caradon, which greatly enhance the value of this property, and from the appearance of the lodes in the present levels, and from other indications, which are precisely the same character as South and West Caradon, there can be no hesitation in saying that this mine is likely to prove equally as productive and profitable to the adventurors.

Application for shares to be made to T. Fuller and Co., 51, Threadneedle-street, London;

Application for shares to be made to T. Fuller and Co., 51, Threadneedle-street, London and to J. J. Sims and Co., Tavistock; of whom prospectuses, with all particulars, may

## WEST TAMAR SILVER-LEAD MINING COMPANY, CORNWALL. This mine is divided into 1024 shares, of which 524 will be disposed of at 30s. per share and to be conducted on the "Cost-book System."

Purser-Mr. John Wymond. Agent-Capt. John Hambly. 52

Bankers-Hodge and Co.

Purser—Mr. John Wymond.

Bankers—Hodge and Co.

This is a silver-lead mine, situated in the parish of Landulph, in the county of Cornwall, and adjoins that of the South Tamar Mine, under the River Tamar. The ore-floors, &c. will be on the bank of the South Tamar Mine, under the River Tamar. The ore-floors, &c. will be on the bank of the Tamar, from which all the produce will be sinjped, and supplies received; herefore, if the advantage of locality be taken into account, as compared with some mines, a large profit may fairly be calculated on, from the great saving in land carriage. This sett is about a half-a-mile north and south on the run of the lodes, and a mile east and west in duchy lands, and bounded by the best lead mines in Devon, South Tamar, from which they are returning 90 tons of rich ore per two months, and nearly the whole of it taken from the ends driving towards this mine; and the farther they drive south the richer the lode appears to be, running into this new mine, from which here is not the least doubt there will be, in a short time, large quantities of ore risen.

In this mine there is an adit being driven about 20 fms.; the lode is from 3 to 4 ft wide, with well-defined walls, composed of soft blue killas, and the lode is now producing some beautiful silver-lead near the surface. A small steam-engine will be required for effectually working the same.

This sett is held under the Duchy of Cornwall, by a letter of licence at 1-12th dues, with a promise of their being reduced when the lease is taken up.

It is the intention of the present proprietors to dispose of 524 shares (so that the parties coming in may have a majority), at 305, per share, and that 20s, per share be paid to the present company, and 10s, be applied to the working of the mine.

A plan of the sett may be seen at Mr. John Gibson's, No. 9, Catherine-street, Devonport, to whom application for shares may be made.

No application for shares may be made.

No application will be received for less than four shares. The following reports have een received from the several mine agents whose names are attached thereto. Any articles whining to become adventurers, will have every opportunity of inspecting the mine, as the proprietors court enquiry.

## REPORTS.

Mine, as the proprietors courte conjury.

West Tamar Mine, Feb. 28.—This mine is situate on the west side of, and abutting on, the River Tamar, in the parish of Landulph, and about eight miles from Plymouth. The sett is very extensive, a mile from east to west, and half-a-mile from north to south. There are great advantages in working this mine, as all materials and machinery may be imported, and the ore exported, without the expense of land carriage. There are three lodes in the sett, two of them are east and west courses, and one north and south. Of the two former but little can be said, as the work done on them is very limited; but I have been informed that stones of copper have been taken from one of these lodes, in draining one of the fields. The latter is evidently the South Tamar lode, which is well known to have yielded great quantities of silver-lead ore, and at the present time leaving a good profit to the adventurers. South Tamar Mine lies to the north of this sett—the River Tamar bears the division of the two setts. The present adventures have driven a level 20 fms. on the course of this lode, which has been productive of rich stones of lead; in the present end the lode is from 3 to 4 feet wide, composed of flockan, spar, and mundle, intermixed with lead in such quantity as is seldom found so very near the surface. I believe this to be a very good sett, and can strongly recommend it; and, with regard to future working, I would advise the continuance of driving on the course of this lode as head—there is a rise of ground from 35 to 40 fms. Those backs will be gained in driving from 150 to 200 fathoms, and at this point I believe this lode will prove productive, and if so this ground may be all taken away, and the mineral returned without machinery for pumping. This ground will not be expensive for working, as the present end is now in the course of driving of the expensive for working, as the present end is now in the course of the lode is the adventurers.

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small ontiay will realise a profit to the adventurers.

JOSEPH EDDY.

Calsicek, Merch 21.—I have this day, according to your request, inspected the West Tamar Mine, in the parish of Landulph, in the county of Cornwall. The locality and situation are good, being near and adjoining the best silver-lead mines in the county of Devon. This sett is extensive, running north and south on the course of the lodes, and about a mile cast and west. The lodes of the Tamar Connois Silver-Lead Mines, from which immenae quantities of rich cres have been sold, and are still profitably working 200 fathoms below, surface, are running direct into the west ground of this mine. This sett also adjoins the South Amar Silver-Lead Mine, from which they are new making large returns of rich silver-lead ore. The same lode runs direct into the West Tamar Mine, on which I find you red criven an adit end in this mine about 20 fms, in a soft blue killas, most congenial for silver-lead; the lode is from 3 to 4 feet wide, well-defined walls, and producing good samples of ore near the surface, and strong indications of a rich lode below. A small engine should be erected near the river, and by sinking 20 fms, and exploring the lodd sorth and south, I think I am justified in saying, from the locality and present appearance in the acti end, there can be no depth but this will make a profitable and lasting mine.

JOHN HABILY.

walls, and producing good samples of ore mast the surface, and strong indications of a rich lode below. A small engine should be erected near the river, and by sinking 20 fms., and exploring the lode north and south. I think I am justified in saying, from the locality and present appearance in the adit end, there can be no doubt but this will make a profuble and lasting mine.

Wheal Langmand, March 27.—According to your request, I have inspected the West Tamar Mine sett. I find that the sett extends about half-a-mile on the course of the lode, and nearly a mile from the east to the western extremity. I have inspected the west lode, which has been opened for about 20 fathoms by an adit opening in the cliff. I find it to be a very promising lode, shant 4 feet wide, composed of flockan and gossan, strongly impregnated with silver-lead ore (with leaders of spar, also containing lead); but the adit, which is being driven, is gaining but little depth. I would, therefore, recommend that a shaft be sunk, and I have no doubt that, in about 10 or 12 fathoms depth, according to the very promising appearances in the south Tamar, every indications believed that which is new so preditable on a poperances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly assert that, according to the very promising papearances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly assert that, according to the very promising appearances, this lode is a constantly appearance, the lode of the constant and the constant

OFFICES.—No. 1, ST. MIGHAELEY, CORNHILL, LONDON.

Perran Prink, March 10.— This mine is situated in the parish of St. Allen, in the county of Cornwall, about 5 miles north of Truro, in a beautiful valley all its length, and situated to the west and south-west of the well-known East Wheal Rose Silver-Lead Mines on the west On the north part of this soft are the old Wheal Rose lodes, and near the centre the Cornubian Older. The sett is very extensive, in an east and west direction, nearly a mile in length, and the same in breadth. The sett is generally composed of a soft civan, most decidedly congenial for lead. Eight east and west lodes have already been opened upon—two of which have been sunk on; they were found to be large lodes, composed of flookan prian, spar, mundic, and fine lead, in a beautiful stratum of ground, good for lead: there are also five north and south lodes opened upon in this sett, which present a very promising appearance; and there remains but very little doubt that they will prove very rich for silver-lead.

In taking a general view of the surface appearance, and the lodes already opened upon.

mising appearance; and need to the control of the c

March 10.—Our attention has been called by you as to the prospects of New Whos Rose. We perceive the seit to be extensive, and the locality to be good, and particularly for lead, being in the vicinity of Chiverton and the East Wheal Rose Silver Lead. There are lodes discovered producing lead, mundic, stocken, &c., which augur favourably for deeper levels; and we approve of the operations commenced by Captain Richard Clymo, in sisking the present shaft, to see the lodes, 12 or 15 fathoms below the surface, by manual or horse-power, previous to the erection of a powerful steam-engine which operation we recommend to be carried out with the greatest dispatch, and which will be a guide to your future operations. JOHN MIDDLETON, East Wheal Rose.

Advisions for above to be made to Mr. Albed Lynn Beillinger, No. 1, St. Michaels.

JAS. EVANS, St. Agnes.

Applications for shares to be made to Mr. Alfred Lyons Beilinger, No. 1, St. Michael's lley, Cornhill, London.

## NORTH TAMAR CONSOLS SILVER-LEAD AND COPPER MINING COMPANY,—BEERFERRIS, DEVON Divided in 2000 shares,—Dues 1-15th.

CONDUCTED ON THE COST-BOOK SYSTEM.

CONDUCTED ON THE COST-BOOK SYSTEM.

W. RONALD, Esq., Forbes, Aberdeen.
W. BUDDEN, Esq., Winebester.
Mr. JOSIAH SIMS, Tavistock.
Captain T. SPRAGUE, Tamar Silver-Lead Mines, Beerferris

Captain T. SPRAGUE, Tamar Silver-Lead Mines, Beerferris.

Purser—Mr. W. A. Palmer, Tavistock | Agent—Capt. John Hambly, Calstock.

Bankers—Devon and Cornwall Banking Company, Tavistock.

This is a SILVER-LEAD and COPPER MINE, from which rich silver-lead ore has been raised, which sold for £35 per ton, and was rich for silver, and the undertaking offers no ordinary attraction as a valuable investment to capitalists and others, being situate in the best mining neigbourhood in the county of Devon, and adjoining the celebrated Tamar Silver-Lead Mines, from which thousands of tons of silver-lead have been raised, and whose agents, together with others, have inspected and spoken very highly of the concern; and it is believed that only a small outlay will be required to bring the mine into a profitable working, and pay dividends to the adventurers.

Application for the remaining shares to be made immediately to Messra, Josiah Sims and Co., mining agents, Tavistock, Devon, from whom reports and every information can be obtained.

## PENCRAIG LEAD MINING COMPANY

Divided into 1500 shares, at £8 per share.

CONDUCTED ON THE COST-BOOK SYSTEM.

COMMITTEE OF MANAGEMENT.

COMMITTEE OF MANAGEMENT.

EDWARD WYNNE THOMAS, Esq., Oswestry—Chairman.
EDWARD MORRIS, Esq., Mayor of Oswestry.
JOHN ROBERTS, Esq.
THOMAS MINSHULL, Esq., solicitor, Oswestry.
Mr. RICHARD EVANS, Oswestry.
Mr. RICHARD EVANS, Oswestry.

Benkers—The North and South Wales Bank.

Bankers—The North and South Wales Bank.

CASTLE-STREET, LIVERPOO

Bankers—The North and South Wales Bank.

OFFICES OF THE COMPANY,—No. 16, CASTLE-STREET, LIVERPOOL.

With a view more fully to DEVELOPE the resources of this well-known MINERAL DISTRICT, an arrangement has been entered into with the original proprietors of these mines to have them worked by means of an influential Public Company. The present proprietors to receive for their interest in the mine (being the cost of purchase and the value of machinery, material, &c.) the sum of £10,500f., of which £8000 is taken in shares in the new undertaking—thus at once taking up 1000 shares, leaving £1500 as a reserved fund; of this £500 is deemed sufficient to carry out all the works suggested in Captain Davey's report, and develope a large extent of minerals on these lands, proved to be intersected, as shown upon the plans and sections, with several valuable lead lodes—one only of which is now worked, and from which, at the present shallow depth of 32 yards, near £3000 worth of ore has been sold, in working comparatively but a short time. This vein has been well proved by two levels and a shaft on its course. On the lowest level the improvement is very decided, from whence much the largest portion of the produce has been obtained. No lead has yet been wrought downward on this level—thus leaving many thousand pounds worth of ore in sight.

These trials have induced the original proprietors to continue sinking on the engineshaft, it is now sinking through the velin, at 9 fathoms under the lowest level; the ore here fully bears out the expected improvement in depth, and justifies the confidence of finding a large and valuable deposit here.

The present water-power machinery, as will be seen by the report, is sufficient to accomplish all the contemplated works for draining the mine, crushing and dressing the ores—leaving the steam-engine on the works in reserve.

## FORM OF APPLICATION.

I request you to allot me shares in the "Pencraig Lead Mining Compan less number that you can allot me; and I hereby agree to pay the amount of a shares.

Address.

d this day of 1851. Occupation or any less number on such shares.

## REPORT OF CAPT. GEORGE DAVEY

EFORT OF CAPT. GEORGE DAVEY.

To the Proprietors of the Peneraig Lead Mines.

Lianrust, March 6,—Having forwarded you a section of the mine workings, with remarks on the machinery, depths of the shafts, driving of the lodes, &c.,; also showing a proposed line for a new adit level, to be commenced about 50 yards down the stream, south-west of the present boundary line, or extreme extent of land granted to the Company by George Davies, Eq., who, after seeing the plans and walking over the ground, consented to the proposal, provided the land was preserved from any further encroachments than was allowed, agreed on, and specified in the lease of the mine.

When this level is complete, the whole of the water will be discharged through the same depth of 32 yards from the top of No. 1 shaft, instead of being pumped, as at present, near the surface, or within two yards of the said top of the shaft. There will also be 40 yards fall for a pressure engine, from the higher pool to the 32 yards level, which will perform duty, raising water from the mine, and using 50 gallons of water per minute to what the wheel now requires 400 gallons—being eight times the effective power as at present, sufficient to work for several years, and likely 100 yards deeper on all the lodes connected with the shafts Nos. 1 and 3.

The principal workings have been on what is called on the plans the north lode, as lettered on the line of the run—therefore, nearly east and west directions, which I consider to be the main or leading lode in the mine. The lodes vary in width from 6 to 18 inches, but this lode is 2 feet wide in some places. In working the backs there is sufficient room for miners to work without breaking the walls on either side.

There is another lode parallel to this, which may be traced from the plantation north of the farm-house at Peneraig to the eastern boundary of the sett, on which there are old workings, as noticed on the map.

The distinction of north and south lodes must only be known from No. 1 westward, as, from the inter

of No. 2 shaft, in a direction running from south-east to north-west.

There are also two cross-courses, one almost to the extreme east part of the sett, from
the range of old workings near the boundary south of the house by Lianrwst-road, has
been producing from time to time large returns of ores. The other parallel cross-course
is to be seen by the lower pool, and crosses the road, west of the boundary of the sett,
but can trace no workings thereon. There is also a large range of elvan running through
the sett on which No. 2 shaft is sunk—marked with a green shade on the plan.

I find that ores raised by the miners working on the lode, for the last twelve months,
amounted to about 160 tons, selling for £2000, dene with sixteen men, besides the expenses of washing, &c.

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NEW WHEAL ROSE,—ST. ALLEN, CORNWALL.

Divided into 5000 shares.

CONDUCTED ON THE COST-BOOK PRINCIPLE.

The proprietors of the above mine have determined on disposing of one-half their interest therein, being 3000 shares, at £2 per share, to increase their capital, for the purpose of erecting a large and powerful steam-engine, and for the vigorous prosecution of this valuable property.

Bankers—Messer. Masterman, Peters, & Co., Nicholas-lane, Lombard-street, London.

Secretary—Mr. James Truscott, jun.

Massoging Agent—Capitan Richard Clymo.

OFFICES.—No. 1, ST. MICHAEL'S-ALLEY, CORNHILL, LONDON.

Pervan Porth, March 10.—This mine is situated in the parish of St. Allen, in the county

per share, and afterwards may be gradually augmented to any required degree of productiveness and profit.

A portion of the 2800 shares are already applied for.

Applications for the remaining shares (deposit £1 12s. 6d.) may be made to Charles Edwards, Eq., stock and sharebroker, 1s, Throgmorton-street, London, and Stock Exchange: or to Frederick Farrar, Eq., Doctors' Commons,—of whom may be had prospectuses, forms of application, and reports of Capt. W. Williams and Evan Hopkins, Eq.

## DOLANGWYN SLATE QUARRY, NEAR ABERDOVEY.

DOLANGWYN SLATE QUARRY, NEAR ABERDOVEY,
NORTH WALES,
NORTH WALES,
A fine SLATE PROPERTY, in NORTH WALES, now presents itself to the notice of
the public; it is only 7 miles distant from a shipping port (Aberdovey), with a good
turnpike-road the whole way—at which port the Slate and Slab can be shipped at a moderate freight, either for London or Liverpool.
The joints in the Quarry are very good, and the metal (a bright blue, and free from
spots) is equal to any produced in the Principality.
The estent of the vein is about three-quarters of a mile in length, by an average width
of from 20 to 30 yards; and, from the favourable position and inclination of the vein, it
can be opened and wrought at a comparatively small outlay. The fall for refuse is all
that can be wished for, and the space ample for centuries.

There is water-power sufficient for all purposes of machinery within about 250 yards
of the Quarry, to which an incline can be made at a trifling expense.
It is proposed to put this property into 4000 shares, at £6 each. The allotment of shares
will take place in the early part of the next month (April). A deposit of £1 10s, per
share will be required upon allotment, and no call to be made at a less interval than three
months, and then only of 10s, per share, with the full consent of a majority of a general
meeting, to be called for that purpose.

A General Meeting will be called within 14 days after the allotment of the shares, when
trustees and a managing committee will be chosen from amongs the shareholders present.

Applications for shares (not less than five), prospectuses, &c., to be made to the Secretary, at the offices of the Union Mining Company, 6, Austinfriers, London.

CHARLES WHEATCROFT, Secretary.

CHARLES WHEATCROFT, Secretary.

HELSTON CONSOLS TIN AND COPPER MINING COMPANY.—ON THE COST-BOOK PRINCIPLE.

In 5000 shares, of £2 each.

No further call or liability.—One-half the shares are taken by the present promoters.

COMMITTEE.

HENRY-FRANCIS HOME, Esq., 2, Gloucester-terrace, Hyde-park.

W. PATTEN HAYNEN, Esq., the chester.

JOSEPH THOMAS, Esq., Finsbury-square.

THOMAS NELSON GOLDING GURNEY, Esq., Furnivel's Inn.

MICHAEL FITZGERALD, Esq., Sioane-street.

Mining Conductor—Jelul Hitchins, Esq.

Broke's (to whom applications for shares may be made)—Messrs. Eykyn Brothers,
Change-alley, Cornhill, London.

Prospectuses, containing report of Capt. John Burgan, and all particulars, may be had of the secretary, Mr. C. Daniel, at the offices of the company, No. 1, Royal Exchange-buildings, London.

buildings, London.
The lodes of Helston Consols Mine are a continuation eastward of those of Wheal Vor, which for several years made a return of £30,000 per annum.
NO APPLICATIONS for SHARES can be RECEIVED after WEDNESDAY next.

# CHEMICAL ANALYSIS, &c.—ANALYSIS and ASSAYS, or INVESTIGATIONS of ANY KIND, are UNDERTAKEN at the COLLEGE OF CHEMISTRY, LIVERPOOL. Professor—Dr. SHERIDAN MUSPRATT, F.R.S.E. Hon. Assistant—Mr. JOSEPH DANSON, F.C.S. A list of Fees for Analysis, and for Students Working in the Laboratory, may be obtained by writing to Dr. Muspratt, College of Chemistry, Liverpool.

TEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODE CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG-BOOK PASSENGERS and RECEIVE GOODS and PARGELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from Suczo no rabout the 10th of the month.

BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malta, thence to Alexandria by her Majesty's steamers, and from Sues by the Honourable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. CONSTANTINOPLE—On the 29th of the month. ALEXANDRIA—On the 20th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th 17th, and 27th of the month.

For plans of the vessels, rates of passage-money, and to secure passages and ship cargo, sply at the company's offices, No. 122, Leadenhall-street, London; and Oriental-place, Southampton.

Southampton.

CTIRLING'S PATENT YELLOW METALS—Adapted for SHEATHING, BOLT STAVES, BOLT NAILS, DECK NAILS, as reported on by the late Mr. Owen, Supervisor of Metals to the Admiralty; also for PROPELLERS, FRAMEWORK SCREWS, PISTONS, CYLINDERS, COCKS (particularly where there is exposure to corrosion), BAILWAY CARRIAGE AXLE BEARINGS, and for all machinery subject to friction.

Messrs. GARDEN & MACANDREW, 34, Dowgate-hill, London.

Messrs. JOHNSON, 166, Buchanan-street, Glasgow.

Applications for licenses and other information to be addressed to the undersigned, at Garden and Macandrew's, No. 34, Dowgate-hill.

ALFRED BARRETT, Manager.

EWALL v. WILKINS AND WEATHERLY.—This case
was tried on the 20th and 21st of February, before the Lord Chief Justice of the
Court of Queen's Bench and a Special Jury.—The action was brought for INFRINGING
Mr. NEWALL'S well-known PATENT for UNTWISTED WIRE ROPES. The Plaintiff
obtained a verdict on all the issues raised, which has fully confirmed his Patent right.
Since this verdict was obtained, the Master of the Rolis has granted an INJUNCTION
AGAINST the DEFENDANTS, to RESTRAIN them from MAKING these ROPES, or
in any way infringing the Plaintiff's Patent.
This is to CAUTION all PERSONS AGAINST MAKING UNTWISTED WIRE ROPES,
and AGAINST BUYING, SELLING, or USING such ROPES, unless made by Mr. Newall, and those to whom he has granted tleenses.
Patent Wire Rope Works, Gateshead, Feb. 26, 1851.

all, and those to whom he has granted licenses.

Patent Wire Rope Works, Gateshead, Feb. 26, 1851.

CAS EXHIBITION, 1851.—The great and increasing importance and the second of the uses to which Gas can be applied should be placed before the public in that form in which they are alone calculated to attract attention—that is, in actual operation. This not being permitted at the National Exposition, the COMMITTEE of the GAS-FITTER'S ASSOCIATION has been induced to make arrangements with the Directors of the Royal Polytechnic Institution for the setting apart of an important portion of that establishment for six months (from May to November), for the ments with the Directors of the Royal Polytechnic Institution for the setting apart of an important portion of that establishment for six months (from May to November), for the ments with the Directors of the Royal Polytechnic Institution for the setting apart of an important portion of that establishment for six months (from May to November), for the ments with the Directors of the Royal Polytechnic Institution for the setting apart of an important portion of that establishment for six months (from May to November), for the ments with the Directors of the Royal Polytechnic Institution for the setting apart of an important portion of that establishment for six months (from May to November), for the continuous production, illustrated and explained daily by competent persons, engaged for that purpose. The Committee call upon all Gas Companies, metropolitan and provincial, their respective sharcholders, as well as coalowners, gas apparatus and indecrurers, and others interested in creating a more extended demand for Gas, to assist the necessary expenses, and also giving their alt, by causing to be sent the various productions of interested in creating a more extended demand for Gas, to assist the necessary expenses, and also giving their alt, by causing to be sent the various productions of interested in creating a more extended demand for Gas, to assist the necessary exp

PATENT IMPROVEMENTS IN CHRONOMETERS,
WATCHES AND CLOCKS.

E. J. DENT, 82, Strand; 33, Cockspur-street; 34, Royal Exchange (clock tower area),
Watch and Clock Maker, BY APPOINTMENT; to the Queen and his Royal Highness,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842, Silver lever watches, jewelled in four holes, 6 gs. each; in gold cases, from
#8 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each
or Meridian Instrument, is now ready for delivery.—Famphlets containing a description
and directions for its use is. each, but to customers gratis.

and directions for its use is. each, but to customers graits.

URPRISING CURE of ASTHMA of TEN YEARS' standing
by Dr. LOCOCK'S PULMONIC WAFERS.—Sir: I have for the last sen years been
afficted with asthma, during which time I have spent from £40 to £40 on medice advice
slone, and all of no avail, and I gave up all hopes until I tried Dr. Locock's Wefers. I
purchased two small boxes and one large one, three menths since, by which I am perfectly
eured, &c.—H. Bustrews, Princas—and. Witness, Mr. J. Williams, chamist, &c., Tipoto.

To singers and public speakers they are invaluable for strengthening and clearing the
voices' timy have a mest pleasant taste.—Price is. 1½d., 25 dd., and it., per box. Sold
by all druggists.—Also, Dr. Locock's Famale Wafers are the only medicine recommended
to females: they have an agreeable taste. Fall directions are given with every box.

Price is. 1½d., 2a, 9d., and its. per box.

## PRICES OF MINING SHARES. It being difficult to obtain a correct knowledge of all the mines in our list, we trust that agents, and others interested, will assist us, by forwarding any additions, or corrections, with which they may be acquainted—our object being to present it as accurate as possible. We have also added a column to note the actual business transacted; but which, without the constant assistance of brokers and agents, cannot become so complete as we could wish. The desirability of such a record is generally admitted, and we invite the co-operation of all parties concerned, in rendering it perfect.

OU	RNAL, RAILWAY	A	NI	C	OM	MER
250 20	0 West Polgooth (tin), St. Ewe & St. Mew	an	6d. 5	Last Pr. 3 . 123	ice. Pi	
300 94 19	West Shepherd (silver-lead and copper) West Tolgus (copper), Illogan		24 34	. 2		44
372 204	West Wheal Frances (copper), Illogan West Wheal Jewel (tin and copper)	1	2	21 25		22 23
30 100	West Wheal Towan (copper), Illogan Wheal Arthur (lead), near East Wh. Ro	80 I	5 7 6	. 15 17		. 15
300 18: 18:	Wheal Elizabeth (copper), Redruth	!	9	. 18	***	
100 400 256	Wheal Golden (lead), Peranzabuloe Wheal Harriet (copper), Camborne	. 7	2	1 1	***	
6000 1024 990	Wheal May (silver-lead and copper)		2	. 3	***	
512 3000 128	Wheal Mary Ann (lead), Menheniot Wheal Penhale (lead and copper)		24	61		65 60 62
126 256 198	Wheal Pollard (copper), St. Cleer Wheal Prudence (copper), St. Agnes	. 1	5	51		51
512 2000 512	Wheal Sophia (silver-lead), Lezant Wheal Tom (tin & copper), Stoke Clims Wheal Trefusis (copper), Gwennap		71	94 10 18 19		18 20
1024 4224 3300 520	Wheal Tremar (copper), St. Cleer	. 1	2	11		
256 267	Wheal Tremaine (copper), St. Ervan Wheal Tryphena (tin and copper)	. 11		184 45 50	****	
1024 1024 1000	Wheal Uny (tin and copper)	: :	3	74		71
128 128	Wheal Violet (tin and cop.), St. Stephen		3	. 3		
5120 1624 940	Alfred Consols (copper), Hayle  Balleswidden (tin), St. Just  Balleswidden (tin), Uny Lelant			104	111	17 18 19
40 128 600	Bolowall and Nanpean (tin), St. Just Boscean (tin), St. Just Bosorn (tin), St. Just	: 10		18 20 18 20	****	
1000 1000 2510	Carbona (tin and copper), St. Just Cook's Kitchen (copper and tin), Illoga	. 182 n 15		81		8 18
128 1024 256	East Balleswidden (tin), Sancreed East Godolphin (copper), Crowan	: 17	1:::	21		
1000 1024 2500 1024	East Wheal Reeth East Wheal Margaret (tin and copper) Georgia Consols (tin), St. Ive's Consol Wheel Alfred St. Fish and Bulled	. 2		7 7		34 4
512 512 1024	Great Wheal Alfred, St. Erth and Phillacl Great Wheal Baddern (tin and silver-lead Hawke's Point (copper), Uny Lelant La Min (Gwinsar) tin and copper	20		85		
256 160 1000	La Min (Gwinear), tin and copper Lelant Consols (tin), Uny Lelant Levant (copper and tin), St. Just Lewis (tin and copper), St. Erth	57	****	22 175 214 224	****	20 22 23 20
1024 2000 1024	Mill Pool (tin and copper), St. Hilary North Levant (tin and copper), St. Just Penzance Consols (tin), Sancreed	5 1		31 34 4	****	3)
1024 560 1024	Praed Consols, Towednack Providence Mines (tin), Uny Lelant Sidney Godolphin (copper), Breage	20	1 ::::	30 1# 2		
300 1024 1024	South Speed (copper and tin), Uny Lelant Spearne Consols (tin), St. Just St. Aubyn and Grylls (copper and tin) St. Ives Consols (tin), St. Ive's	15	1	30 11# 12#		12å 12 12‡ 4
280 1024	Trannack and Bosence, St. Erth	30		80 40 10 51 6		5 51
512 600 604	Trannack United Mines (tin and copper) Trebarvah, Perranuthnee Trelyon Consols (tin), St. Ive's Trowan Consols (tin), Towedneck Trumpet Consols (tin), near Helston,	1		5 84		0 0
100 1000 1024	Wellington (copper & tin) Perraputhnoo	61	****	80 90 91 141 15		114
1024 1024 512	West Alfred Consols West Ding-Dong (tin) West Providence (tin), St. Erth West Wheal Treasury (copper), Gwinear West Wheal Virgin (tin), Sancreed	10	1	141 15 24 25 26 3 771 80	****	21 23 3 78 80
1024 1024 256	West Wheal Treasury (copper), Gwinear West Wheal Virgin (tin), Sancreed Wheal Albert (copper)	10	****	7# 8 2# 2# 28 29	:::	21 2
3072 120 256	Wheal Albert (copper) Wheal Augusta (tin), St. Just Wheal Bal (tin), St. Just Wheal Carpenter (tin), Gwinear Wheal Guskis (tin and copper), St. Hillary	10		24 25 25 26 2 14	****	3 31
1000 1000 112 1024	Wheal Lemon, Germoe	13s 79		1 170 1 14		1
1080 40 240		201		200 105		
1024 1000 1024	Wheal Owles, St. Just	10		1 ½ 2 ½ 20 ½	****	20 224 21
1024	Wheal Trelusback, Stythians	5		10		5 5
1500 8000 10000	Blannavon (fron)	12	****	10	****	
2000 2400	British Iron, New, regis. (iron) Ditto ditto, scrip Bronfloyd (lead) Bryn-Arian (lead), Cardiganshire	10		10 4 21	****	- 101
1000 2000 1000	Bryntail, Llanidioes, Montgomeryshire Bwich Consols (silver-lead), Cardiganshire Cae-Gynon (silver-lead), Cardiganshire	10		17 4 4± 4‡		17
20000 200 2500 900	Cae-Gyaon (silver-lead), Cardiganshire Cameron's Steam Coal (coal), Swansea Cem Bruno (lead), Cardiganshire Cem Gwyn (silver-lead), Cardigan Court Grange (silver-lead), Cardiganshire	6 2 10	::::	2 24 55 21 21 12	****	55
1600 1000 1000	Craig-y-Mwyn (lead), Llanrhiadr, Mont. Cwm Daren Cwm Erfn (lead), Cardiganshire Cwm Sebon	81		101 3 5 6		- "
2000 128 3000	Cwm Sebon Cwmystwith (lead), Cardiganshire Dalrhiew (copper and lead) Daren (silver-lead), Cardiganshire	60	****	105 10		
1000 3000 150		10 17		7 114 12 60 624	::::	
1280 1024 5000	Byringwin (lead), Cardiganshire  Esgair Llee Llanfihangel-y-Croythin  Freidd Llwydd Mines (lead)  Garreg (lead), Flint  Gelli-rei-vin (silver-lead), Cardiganshire	1 1 1		5 4 6 3 4 2	:::	21
1000 100 12000 100	Goginan (lead), Cardiganshire	40 2 75		200 720		720
1000 3600 5000	Liwynmalees (lead), Cardiganshire Llynvi Iron (iron) Morllyn (lead), Flint Montgomery (lead and copper). Nanteos (lead), Cardiganshire	91 50 21		8 50 41		4
1024 200 3000	Nant-y-Car (copper), near knayader	34		111 30 5 51		
1000 1000	Pennant and Craigwen (lead) Penralt	3 4	****	4 5 6 1 5		- 54
2500 10000 10000 2048	Rhoswydol and Bachelddon (lead)	103 50 7 3	****	12		
2000 4000 2048	Tyn-y-Worglod (slate), near Carnarvon West Goginan (sliver-lead), Cardiganshire	1 4 1 8		1 4 5 31		
1020	West Nantymwyn	-		2		
39 3000 1024	Black Burn, Alston, Cumberland Cally (copper and lead), Kirkcudbrightsh. Carn Galver	15		100		11
5000 7100 1000	Black Craig (lead), Kirkcudbrightshire Derwent (silver-lead), Durham Dhurode (copper) Ireland	10 2		5 3 5		
3750 32 10000 1900	General Mining Co. for Ireland (copper). Helvellin Mining Company, Westmoreland Hibernian (copper) Ireland	15 15 121 11		5# 25 1# 2 3		11
786 5000 5000	Keswick (lead), Portinscate, near Reswick Kirkcudbrightshire (lead), Kirkcud Low's Patent Copper Company Mendip Hills (lead), near Bristol	9# 7 3‡		5 5 1 10 2 7 8		
20000 2000 2000 1500	Mining Co. of Ireland (copper, &c.)	7 24		41 41		4
1024 5200	Trenault (lime quarries) Weston (lead), Cherbury, Shropshire Wicklow (copper), Wicklow FOREIGN MIN	5	****	19 Paid	****	sent Dules

FOREIGN MINES.

Paid. Present Pric

20000	General Mining Association (Iron & coal), Nova Scotia	20	****	14
5000	Kinzigthal Mining Association (silver), Germany	2		11116
12000	Liguanea and General Mining Company of Jamaica	1	** *	AE 6
5000	Linares (lead), Spain	3		24 24
4500	Ditto Additional	- 1		10 10 10 10 10
500	Ditto Preference	3		a blod wh
20000	Mexican and South American (copper), Mexico	9		35700 8
5061	Mexican Company (silver), Mexico	594		
5000	National Brazilian (gold), Brazil	30		14 2 15
04000	North British Australusian (copper), S. A. & New Zea.	- 1		
7000	Royal Santiago (copper), Cuba	10		
11000	St. John del Roy (gold), Brazil			
43174	United Mexican (silver), Mexico	180		45 8
10000	Worthing (copper), Adelaide, South Australia	3		98 98

#### Bew Batents.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

C. Habatt, of Royal Exchange-buildings, merchant: For improvements in rolling iron. This invention consists in making piles or fagots of iron for rolling into bars or plates for railway and other purposes, by colling a rod or bar round a bundle of rods or bars, so as to lay the grain in different directions, and cause the fibres to be well interlaced. The patentee observes, that he is aware that iron has been previously twisted in a somewhat similar manner for making the barries of fire-arms; he claims, therefore, the manufacture of iron by rolling rods or bars piled or fagotted, as above described.

a somewhat similar manner for making the barrels of fire-arms; he claims, therefore, the manufacture of iron by rolling rods or bars piled or fagotted, as above described.

J. Nasmyth, of Patricroft, Lancashire, engineer, and J. Barron, of Manchester, copper rollor manufacturer: For certain improvements in machinery or apparatus for printing calicoes and other surfaces; and also improvements in the manufacture of copper or other metallic rollers to be employed therein, and in the machinery or apparatus connected with such manufacture.

The improvements in machinery for printing calicoes, as here claimed, resolve themselves into a method of perfecting or finishing the edge of the "doctor," an instrument of steel or other suitable material employed for clearing or removing from the unergraved portions of the roller used in cylinder printing machines the superfluous colouring matter. The edge of the "doctor," after continued use, becomes irregular and uneven, and, according to the methods hitherto practised, has been kept perfectly straight (so as to ensure coincidence of contact between it and the entire length of the roller) by filing, and then finishing with a whetstone; which operation, having to be performed by hand, required great nicety, and involved a considerable loss of time and, consequently, expense. These objections are obviated by the patentees' method, in which the "doctor is fixed in a frame to which a reciprocating motion is imparted by any of the means in use for such purpose. During the traverse of the frame, the edge of the "doctor" after doctor "next have been purpose. During the traverse of the frame, the edge of the officer in the same pulley. Both sides of the "doctor" are thus simultaneously operated on, and by shifting the grindstones (which are mounted in slotted arms, so as to be capable of adjustment), any required bevil or angle may be given to the opposite edges of the "doctor"—2. The patentees propose and claim the application of Nasmyth's Steam-Hammer, for the consolidation while i

H. HOULDSWORTH, of Cottage-house, Lanark, ironmaster: For improvements in the manufacture of iron and other metals. The improvements here claimed are—1. The application of the inflammable gases evolved from blast furnaces in the process of smelting to the rosating or calcination of iron, stone, and other ores of metal and lime.—2. The system of rosating or calcining minerals by such gases conducted through pipes or fuses to close kins or deposits of the minerals, and ignited therein.—3. The application of these gases to the purpose of drying cores or moulds, or other similar apparatus employed, in the casting of metals.—4. The system of blowing, smelling, or melting in furnaces, or fires employed in the manufacture of metals, by means of air blasts diffused over a large surface of the mineral under operation, either by two or more currents of air impinging one against the other, or by a current of air impinging against a fixed deflecting surface.—5. The cumployment of annular tuyeres or blowpipes for the purpose of diffusing the air blast.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

J. P. Booth, of Cork, Ireland, feather purifier, for an improved manufacture of fabrica applicable to the construction of mufs, boas, tippets, and other like a ticles, and also to the ornamenting of articles of dress and furniture, and other similar uses.

L. Brunier, of Paris, civil engineer, for improvements in obtaining power by the use of steam or compressed air.

J. Richarkson, Halifax, York, dyer, improvements in dyeing and cleansing piece goods.

A. Motte, Southwark, Surrey, manufacturer, certain improvements in portmantenss.

T. Huckwale, of Choice-hill, Oxford, for improvements in treating mangle-wurtzel, and in making drinks and other preparations therefrom.

R. A. Brooman, of the firm of Messrs. J. C. Robertson and Co., of Ficet-street, London, patent agents, for improvements in machinery for the manufacture of rope and cordags.

J. Gwynne, of Lansdowne-lodge, Notting-hill, Middlessex, merchant, for improvements in machinery for pumping, forcing, and exhausting of steam, fluids, and gases, and in the adaptation thereof to producing motion to the saturation, separation, and decomposition of substances.

DESIGNS FOR ABTICLES OF ITILITY PROJECTED.

#### DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

G. R. Woolgar, Wood-street, Cheapside, La Jumelle scarf cravat.
E. Shingler, Birmingham, sporting boot.
Garton and Jarvis, High-street, Exeter, convolute boiler for heating hot-houses, conservatories, public and other buildings, by steam or hot water circulating through pipes.
Blackwood and Co., Long-sere, ready reference file.
L. Silberberg, Fleet-street, and St. Martin's-Le Grand, askopsolon cigar-case,
G. Ellwood, Aldersgate-street, expanding fur cuff.
Stock and Son, Birmingham, tap.
Tylor and Sons, Warwick-lane, Newgate-street, bath.
G. D. Beckett, Fenclurch-street, and Gracchurch-street, boot.
R. Millard, Craven-street, Strand, portmanteau bag.
D. Hulett, High Holborn, compound concentric gas burner.
A. R. Corpe, King-street, St. James's, fastening for trowser-straps.
P. R. Jackson, Salford, safety cap for steam-boilers.
I. Baggs, and J. W. Giles, Aldersgate-street, fire and burglary alarm.
R. Plummer, Newcastle-on-Tyne, flax straw-breaking machine.
J. Coate and Co., Brower-street, Golden-square, anti-carious tooth brush.
J. Haley, Manchester, safety signal for steam-boilers.
Parketter and Sharpus, Bell-court, Cannon-street, double cone smoke-clevator for curing smoky chimnles.

PROVISIONAL REGISTRATIONS.

PROVISIONAL REGISTRATIONS.

PROVISIONAL REGISTRATIONS.

G. Kane, Dublin, portmanteau buckle.

R. Wesson, Coburg-street, Hampstead-road, secret lock.

Etienne de Maignol Mataplane, South-street, Finsbury, circular tilting platform.

E. Golding, Hurstbourne Priors, Andover-road, rolling barley chumper.

M. Roch, South-street, Finsbury, letter envelope.

J. Freeman, Wigmore-street, Napolean cafetiere.

E. Hughes, Stockbridga-terrace, Pimileo, self-adjusting lamp.

N. Rabiot, South-street, Finsbury, invalid bedstead.

J. L. Fry, Honiton, tailor's cardinal point, measure, and rule.

Giles Little and Co., Fetter-lane, and Cursitor-street, ring for fishing-rods and other

S. Jackson, Red Lion street, illuminated candle clock.

T. Allen, Cliiton, iron roof.—Mechanics' Magazine.

WHICH ARE THE "PRECIOUS METALS?"—When Captain Wallis, the first European who had intercourse with the inhabitants of Otaheite (or Tahiti, sit is now the fashion to write it), laid before them several gold and silver coins, some new halfpence, and two large nails, and told them to take their choics the nails and the halfpence were eagerly appropriated; while the silver and gold law neglected.

gold lay neglected.

ALKALI WORKS—The number of works for the manufacture of soda, potash, and carbonate of ammonia on the Tyne is at present 12—4hose of the Jarrow Alkali Company; Mr. T. Bell; Mr. S. Mease; the Walker Alkali Company; Messras. Burnett Brothers; Messra. J. Lee and Co.; Messra. C. Allhusen and Co.; Mr. E. R. Ridley; Mr. J. Cook; Mr. R. Imeary; Messras. Swinburne and Co.; and Messras. Gray and Crowe; and there is one more, belonging to Messra. Cook, in course of construction. Besides these, there are the extensive works of the Washington Chemical Company, which, although bordering on the West, ship largely of their produce on the Tyne.—Gateshead Observer.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending March 9, was -58,170.—Amount of money. £242 7s. 6d.

COAL MARKET, LONDON.

MONDAY.—Budge. Fax Ton AT THE GLOSE OF THE MARKET.

MONDAY.—Budge. Fax Ton AT THE GLOSE OF THE MARKET.

MONDAY.—Budge. Fost Hartley 14—Cart's Hartley 13—6—Tanfield Moor Buts
13—Walker Primrose 12.—West Hartley 14—Kartley 13—6—Tanfield Moor Buts
14—Bewicke and Co. 14—3—Gosforth 14—North Percy Hartley 13—6—Tanfield Moor Buts
14—Bewicke and Co. 14—3—Gosforth 14—North Instell 13—Riddell 14—Edm
Main 14—Bell 14—Perhardly 11—5—Hartley 15—Hartley 13—Budgell 14—Edm
Main 14—Sem Hartley 15—Hartley 15—Hartley 13—Budgell 14—Edm
West Kelloe 14—Sownour Tees 13—Tees 15—West Cornforth 13—Cowpen Hartley 14—Deep Vein Milford 21.—Hartley 14.—Ships at market, 113; sold, 67—
WEDNESDAY.—Bate's West Hartley 13—Bater's Hartley 13—Budgle's W—Hartley 14—Carr's Hartley 14—Cbester Main 13—East Adair's Main 11—6—Walker
14—Carr's Hartley 14—Cbester Main 13—East Adair's Main 11—G—Howa Moor
14—Tanfield Moor Butse 13—6—Walker 13—Seat Adair's Main 11—Fandel Moor
14—Tanfield Moor Butse 13—6—Walker 13—East Adair's Main 14—C-mandel Moor
14—Partley 14—Butsen 15—Hartley 13—Budgell's W—Hartley 14—Lambton Frimrose 15—Bellmont 14—Harton 14—Hedley 14—Eastson 12—Northumberland 13—Walker 13—Edm Main 14—Lambton Frimrose 15—Bellmont 14—Butsen 15—Septem Grange 15—Lambton 15—Bellmont 14—Butsen 15—Septem 13—Fost 14—Butsen 14—EastMain 14—Russell's Hetton 15—Septem Grange 15—Lambton 15—Bellmont 14—Hartley 13—South Peareth 14—Walker Primrose 15—Bell 14—West Wylam 13—South Peareth 14—Walker Primrose 14—Hartley 13—North Percy Hartley 13—South Peareth 14—Walker Primrose 14—Hartley 14—West Wylam 13—Wylam 13—East Main 14—EastMain 14—Lawson 13—Northumberland 13—Riddell 13—Edm Main 14—Septem 14—Hartley 14—Hartley 13—Hartley 14—Hartley 13—South Peareth 11—Septem 14—Belley 14—Hartley 14—Hartley 13—South Peareth 11—Septem 14—Belley 14—Hartley 14—Hart

London: Printed by Richard Middleron, and published by Henry Brazism (the proprietors), at their offices, No. 26, Fleet-Streez, where all communications are quested to be addressed.

[April 5, 1851.]